

CRUDE OIL TERMINAL & CUSTODY TRANSFER DATA

OIL, GAS & CHEMICALS SERVICES

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**CUSTODY
TRANSFER**

DATA

COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
ALGERIA						
ARZEW NEW PORT	SONATRACH RTO	S	54	ASTM D 4007	V	DZAZA
ARZEW NEW PORT	SONATRACH RTO	S	54	ASTM D 4007	V	DZAZB
ARZEW NEW PORT	SONATRACH RTO	S	54	ASTM D 4007	V	DZAZC
ARZEW NEW PORT	SONATRACH RTO	S	54	ASTM D 4007	V	DZAZD
BEJAIA	SONATRACH RTE	S	54	ASTM D 4007	V	DZBJA
BEJAIA	SONATRACH RTE	S	54	ASTM D 4007	V	DZBJB
BEJAIA	SONATRACH RTE	S	54	ASTM D 4007	V	DZBJC
SKIKDA NEW PORT	SONATRACH RTE	S	54	ASTM D 4007	V	DZSKA
SKIKDA NEW PORT	SONATRACH RTE	S	54	ASTM D 4007	V	DZSKB
SKIKDA NEW PORT	SONATRACH RTE	S	54	ASTM D 4007	V	DZSKC

ANGOLA

CABINDA	KUITO	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	AOCBK
CABINDA	MALONGO	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	AOCBM
CABINDA	MALONGO	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	AOCBA
SOYO	DALIA CRUDE OIL	I	54A	ASTM D 4007	A	AOSOD
SOYO	GIRASSOL FPSO	I	54A	ASTM D 4007	A	AOSOG
SOYO	GREATER PLUTONIO	I	6A	ASTM D 4928	A	AOSOA
SOYO	KIZOMBA A	I	6A	ASTM D 4928 ASTM D 4007	A	AOSOK
SOYO	KIZOMBA B	I	6A	ASTM D 4928 ASTM D 4007	A	AOSOB
SOYO	KIZOMBA C	I	6A	ASTM D 4928 ASTM D 4007	A	AOSOC

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
SOYO	PALANCA	I	54A	ASTM D 95	V	AOSOP
SOYO	SAXI BATUQUE	I	6A	ASTM D 4007	A	AOSOS
SOYO	XIKOMBA	I	6A	ASTM D 4928 ASTM D 4007	A	AOSOX

ARGENTINA

BAHIA BLANCA	OIL TANKING	I	54	ASTM D 4006 ASTM D 4807	V	ARBHO
CALETA CORDOBA	TERMAP'S	S	54A	ASTM D 4928 ASTM D 4807	V	ARCCA
CALETA CORDOVA	TERMAP'S	I	54	ASTM D 4006 ASTM D 4807	V	ARCCB
CALETA OLIVIA	TERMAP'S	I	54	ASTM D 4006 ASTM D 4807	V	ARCOT
CALETA OLIVIA	TERMAP'S	S	54A	ASTM D 4006 ASTM D 4807	V	ARCOA
PUERTO ROSALES	OIL TANKING EVITEM	S	54A	ASTM D 4928 ASTM D 4807	V	ARPRO
PUNTA LOYOLA	PETROBRAS	S	54A	ASTM D 96	V	ARPLP
PUNTA LOYOLA	PUNTA LOYOLA	I	54	ASTM D 95 ASTM D 96	V	ARPLL
RIO CULLEN	TOTAL AUSTRAL	S	54A	ASTM D 4006 ASTM D 4807	V	ARRCT
SAN SEBASTIAN	CRUZ DEL SUR	S	54A	ASTM D 4006 ASTM D 4807	V	ARSSC
TIERRA DEL FUEGO	CRUZ DEL SUR	S	54	ASTM D 1796	V	ARTFC
TIERRA DEL FUEGO	TOTAL AUSTRAL	I	54	ASTM D 4006 ASTM D 4007	V	ARTFT

ARUBA

COASTAL	COASTAL	S	6A	ASTM D 4006	A	AWCSC
SAN NICOLAS	COASTAL	S	6A	ASTM D 4006	A	AWSNC

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCFTABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
AUSTRALIA						
BARROW ISLAND	BARROW ISLAND	S	54A	ASTM D 96	A	AUBIB
BAYU UN DAN	FSO LIBERDADE, BAYU UN DAN	I	54A	ASTM D 96	A	AUBUF
COOPER BASIN	PORT BONYTHON	I	54A	ASTM D 96	A	AUCBP
COOPER BASIN CONDENSATE	PORT BONYTHON	I	54A	ASTM D 96	A	AUCBB
COSSACK	FPSO	I	54A	API 10.4	A	AUCKF
JABIRU	FPSO	I	54A	ASTM D 96	A	AUJBF
LAMINARIA	NORTHERN ENDEAVOUR	I	54A	API 10.4	A	AULMN
MUTINEER - EXETER	MODEC VENTURE 11	I	54A	ASTM D 96	A	AUMEM
NW-SHELF CONDENSATE	WITNELL BAY, DAMPIER	S	54A	API 10.4	A	AUNSW
DAMPIER - STAG	FPSO DAMPIER SPIRIT	I	54A	ASTM D 96	A	AUSTD
THEVENARD	SALADIN MARINE TERMINAL	S	54A	ASTM D 96	A	AUTHS
VARANUS ISLAND	VARANUS ISLAND	S	54A	ASTM D 96	A	AUVIA
VARANUS ISLAND	VARANUS ISLAND	S	54A	ASTM D 96	A	AUVIB
WANDOO	WANDOO MARINE TERMINAL	I	54A	ASTM D 96	A	AUWDM
WOOLLYBUTT	FPSO FOUR VANGUARD	I	54A	ASTM D 96	A	AUWLF
WORRIOR (COOPER BASIN)	PORT BONYTHON	I	54A	ASTM D 96	A	AUWRB
AZERBAIJAN						
ABSHERON	CAUCASTRANSERV	S/C/L	54A	ASTM D 4006 ASTM D 4807 ASTM D 96	A	AZABC
BAKU	ASTRANSRAIL	S/C/L	54A	ASTM D 4006 ASTM D 4807 ASTM D 96	A	AZBKA
SANGACHAL	AZERTRANS	S/C/L	54A	ASTM D 4006 ASTM D 4807 ASTM D 96	A	AZSGA

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCf TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
BAHAMAS						
FREEPORT	SOUTH RIDING POINT	S	6A	ASTM D 95 ASTM D 473 ASTM D 1796	A	BSFPS
BANGLADESH						
CHITTAGONG	EASTERN REFINERY LTD.	C	24A	ASTM D 95 ASTM D 473 ASTM D 96	A	BDCHE
BRAZIL						
ANGRA DOS REIS	TEBIG	C	BR-TABLE	ASTM D 4007	V	BRART
CAMPOS BASIN	FPSO ESPIRITO SANTO	I	BR-TABLE	ASTM D 4007	V	BRsBA
CAMPOS BASIN	FPSO FLUMINENSE	I	BR-TABLE	ASTM D 4007	V	BRsBB
CAMPOS BASIN	FPSO FRADE	I	BR-TABLE	ASTM D 4007	V	BRsBC
CAMPOS BASIN	FPSO P-32	C	BR-TABLE	ASTM D 4007	V	BRsBD
CAMPOS BASIN	FPSO P-33	C	BR-TABLE	ASTM D 4007	V	BRsBE
CAMPOS BASIN	FPSO P-35	C	BR-TABLE	ASTM D 4007	V	BRsBF
CAMPOS BASIN	FPSO P-47	C	BR-TABLE	ASTM D 4007	V	BRsBG
CAMPOS BASIN	FPSO P-50	I	BR-TABLE	API 10.4	V	BRsBH
CAMPOS BASIN	FPSO POLVO	I	BR-TABLE	ASTM D 4007	V	BRsBI
GUAMARÉ	TA/OPG	S/C/R	BR-TABLE	ASTM D 4007	V	BRGUT
PLATAFORM SS11	FSO AVARÉ	S/C/R	BR-TABLE	ASTM D 4007	V	BRPLF
RIO GRANDE	DT - TA TERIG	S/C/R/L	BR-TABLE	ASTM D 4007	V	BRRGD
SANTOS	DT-TAS	S/C/R	BR-TABLE	ASTM D 4007	V	BRSTD
SANTOS	DT-TAS	S/C/R/L	BR-TABLE	ASTM D 4007	V	BRSTT
SÃO FRANCISCO DO SUL	DT - TA TEFRAN	S/C/R	BR-TABLE	ASTM D 4007	V	BRsFD
SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	S/C/R	BR-TABLE	ASTM D 4007	V	BRsSA
SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	S/C/R	BR-TABLE	ASTM D 4007	V	BRsSB

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SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	S/C/R	BR-TABLE	ASTM D 4007	V	BRSSC
SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	S/C/R	BR-TABLE	ASTM D 4007	V	BRSSD
TRAMANDAÍ	DT - TA TEDUT	S/C/R/L	BR-TABLE	ASTM D 4007	V	BRTRD

BRUNEI

SERIA	SERIA CRUDE OIL TERMINAL	I	54A	ASTM D 4007	A	BNSRC
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BULGARIA

BOURGAS	ROSENETZ OIL TERMINAL	C	54A	ASTM D 96	V	BGBGR
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CAMEROON

CAPE LIMBOH	SONARA REFINERY	S	54A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	CMCLS
EBOME MARINE	EBOME MARINE	I	54A	ASTM D 4007	A	CMEME
KOLE	KOLE MARINE	S	54A	ASTM D 4007	A	CMKLM
KRIBI	KOME KRIBI 1 MARINE	I	6A	ASTM D 4928 ASTM D 473	A	CMKKK
MOUDI	MOUDI MARINE	I	54A	ASTM D 4007	A	CMMUM

CANADA

ARNOLD'S COVE, NF	IMTT	I	54	ASTM D 4377 ASTM D 4807	A	CAACI
COME-BY-CHANCE, NF	NORTH ATLANTIC REFINING	C	6	ASTM D 4006 ASTM D 473	A	CACCR
DARTMOUTH, NS	IMPERIAL OIL	I	54	ASTM D 4377 ASTM D 4807	A	CADMI
POINT TUPPER, NS	NUSTAR ENERGY LP	C	6	ASTM D 4377 ASTM D 4807	A	CAPTN

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCFT TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
SAINT JOHN, NB	IRVING OIL (CANAPORT TERMINAL)	I	6	ASTM D 95 ASTM D 473	A	CASJI
BURNABY, BC	KINDER MORGAN WESTRIDGE	I	6A	ASTM D 4928 ASTM D 4807 ASTM D 4007	A	CABRK

CHILE

ARICA	TRANSREDES	S	6A	ASTM D 4007	A	CLART
CALETA CLARENCEA	ENAP CLARENCEA	S	6A	ASTM D 4007	A	CLCLE
SAN GREGORIO	ENAP GREGORIO	S	6A	ASTM D 4007	A	CLGRE
QUINTERO	ENAP ACONCAGUA MONOBOUY	C	6A	ASTM D 4007	A	CLQUE
SAN VICENTE	ENAP BIO BIO TERMINAL "B"	S	6A	ASTM D 4007	A	CLSVE

CHINA

DALIAN	DALIAN XINGANG	S	54A	ASTM D 4007	A	CNDLD
HAIKOU	HAINAN REFINERY	S	54A	ASTM D 4007	A	CNHKH
HUIZHOU	GPC/SINOPEC & MBZ/CNOOC	S	54A	ASTM D 4007	A	CNHUG
MAOMING	MAOMING REFINERY	S	54A	ASTM D 4007	A	CNMGR
NINGBO	DAXIE SHIHUA	S	6A	ASTM D 4007	A	CNNBD
NINGBO	SUANSHAN	S	6A	ASTM D 4007	A	CNNBS
QINGDAO	SINOPEC	S	54A	ASTM D 4007	A	CNQDS
QINGHUANGDAO	CAOFEIDIAN	S	54A	ASTM D 4007	A	CNQGC
QUANZHOU	FUJIAN REFINERY	S	54A	ASTM D 4007	A	CNQZF
SHANGHAI	SHANGHAI	S	54A	ASTM D 4007	A	CNSHS
SHENZHEN	SHENZHEN	S	54A	ASTM D 4007	A	CNSZS
TIANJIN	TIANJIN	S	54A	ASTM D 4007	A	CNTIT
ZHANJIANG PORT	ZHANJIANG	S	54A	ASTM D 4007	A	CNZGZ
ZHOUSHAN	AOSHAN	S	6A	ASTM D 4007	A	CNZSA
ZHOUSHAN	CEZI	S	6A	ASTM D 4007	A	CNZSC

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
COLOMBIA						
COVEÑAS	ECOPETROL ODC	I	6A	ASTM D 4006 ASTM D 473	A	COCOE
COVEÑAS	OCENSA	I	6A	ASTM D 4006 ASTM D 473	A	COCOO
MAMONAL	ECOPETROL	S	6A	ASTM D 4006 ASTM D 473	A	COMLE
TUMACO	ECOPETROL	S	6A	ASTM D 4006 ASTM D 473	A	COTUE
CONGO						
AZURITE	FDPSO AZURITE	I	6A	ASTM D 4007	A	CGAZD
DJENO	DJENO SBM	I	54A	ASTM D 1796	A	CGDJS
COTE D'IVOIRE						
ABIDJAN	FPSO	C	6A	ASTM D 4007	A	CIAJF
ABIDJAN	SIR II	S	54A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	CIAJS
CROATIA						
OMISALJ	JADRANSKI NAFTAOVOD	C	54A	ASTM D 96	A	HROJJ
DOMINICAN REPUBLIC						
PALENQUE	CONV.BUOY MOORING (CBM)	S	54A	ASTM D 95 ASTM D 473 ASTM D 96	A	DOPPC
ECUADOR						
ESMERALDAS	BALAO	S	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	ECESB
ESMERALDAS	OCP	S	6A	ASTM D 4006 ASTM D 473	A	ECESO

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
EGYPT						
AIN SUKHNA	AIN SUKHNA	I	24A	ASTM D 4928 ASTM D 4807	A	EGASA
EAST ZEIT BAY	EAST ZEIT BAY	S	54A	ASTM D 4007	A	EGZBZ
MERSA EL HAMRA	EL HAMRA	S	24A	ASTM D 4007	A	EGEHH
GEISUM	GEISUM	S	54A	ASTM D 4007	A	EGGSG
RAS BUDRAN	RAS BUDRAN	S	54A	ASTM D 4007	A	EGRBB
RAS GHARIB	RAS GHARIB	S	54A	ASTM D 4007	A	EGRGG
RAS SHUKHEIR	RAS SHUKHEIR	S	24A	ASTM D 4007	A	EGRSS
SIDI KERIR	SIDI KERIR	I	24A	ASTM D 4928 ASTM D 4807	A	EGSKS
WADI FERIAN	WADI FERIAN	S	54A	ASTM D 4007	A	EGWFF
ZAAFARANA	ZAFCO	C	24A	ASTM D 4007	A	EGZfZ
ZEIT BAY	ZEIT BAY	S	54A	ASTM D 4006 ASTM D 4007	A	EGZBZ

FRANCE

DONGES	TOTAL RAFFINERY OF DONGES	I	54A	ASTM D 4006 ASTM D 473	A	FRDGT
DUNKIRK (DUNKERQUE)	TOTAL RAFFINERY OF FLANDRES	I	54A	ASTM D 4377 ASTM D 473	A	FRDKT
FOS-SUR-MER	ESSO	I	54A	ASTM D 4377 ASTM D 473	A	FRFSE
FOS-SUR-MER	GIE CRAU	I	54A	ASTM D 4377 ASTM D 473	A	FRFSG
FOS-SUR-MER	SOUTH EUROPEAN PIPELINE	I	54A	ASTM D 4377 ASTM D 473	A	FRFSS
LE HAVRE	COMPANIE INDUSTRIELLE MARITIME	I	54A	ASTM D 4006 ASTM D 473	A	FRLHC
LE HAVRE	COMPANIE INDUSTRIELLE MARITIME	I	54A	ASTM D 4006 ASTM D 473	A	FRLHA

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
GABON						
ETAME	ETAME MARINE TERMINAL	S	6A	ASTM D 4006	A	GAETE
GAMBA	GAMBA TERMINAL	S	54A	ASTM D 4006	A	GAGMG
LIBREVILLE	REMOUE TERMINAL	S	54A	ASTM D 4006	A	GALVP
LUCINA	LUCINA TERMINAL	S	54A	ASTM D 4006	A	GALUT
OGUENDJO	OGUENDJO TERMINAL	S	54A	ASTM D 4006	A	GAOGT
PORT-GENTIL	CAP LOPEZ	I	54A	ASTM D 4006	A	GAPGC

GEORGIA

BATUMI	BATUMI OIL TERMINAL	S	54	ASTM D 4928 ASTM D 473	V	GEBTT
SUPSA	SUPSA TERMINAL	S	54	ASTM D 4928 ASTM D 473	A	GESPT

GERMANY

BRUNSBÜTTEL	SHELL REFINERY	I	54A	ASTM D 4928 ASTM D 473	A	DEBBS
BRUNSBÜTTEL	TOTAL REFINERY	C	54A	ASTM D 4928 ASTM D 473	A	DEBBT
HAMBURG	HOLBORN REFINERY	I	54A	ASTM D 4928 ASTM D 47	A	DEHGR
HAMBURG	SHELL REFINERY	C	54A	ASTM D 4928 ASTM D 473	A	DEHGS
ROSTOCK	GOR	I	54A	ASTM D 4928 ASTM D 473	A	DERSG
WILHELMSHAVEN	NOW TERMINAL	I	54A	ASTM D 4006 ASTM D 473	A	DEWHT
WILHELMSHAVEN	WRG REFINERY	C	54A	ASTM D 4928 ASTM D 473	A	DEWHR

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
GHANA						
PORT OF SALTPOND - OFFSHORE	SALTPOND TERMINAL	C	54A	ASTM D 1796	A	GHOSS
GREECE						
AGIOI THEODOROI	MOTOR OIL REFINERY	C	54A	ASTM D 4006 ASTM D 473 ASTM D 4007	V	GRATM
ASPROPYRGOS	HELENIC PETROLEUM ASPROPYRGOS REFINERY	C	54A	ASTM D 4006 ASTM D 473 ASTM D 4007	V	GRASH
ELEUSIS	PETROLA HELLAS REFINERY	S/I	54A	ASTM D 4006 ASTM D 473 ASTM D 4007	V	GREFP
PACHI	HELLENIC PETROLEUM ASPROP. REFINERY - MEGARA	S/I	54A	ASTM D 4006 ASTM D 473 ASTM D 4007	V	GRPCH
PRINOS OFF SHORE	PRINOS TERMINAL	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	V	GRPRT
THESSALONIKI OFF S	EKO THESSALONIKI REFINERY	S	54A	ASTM D 4377 ASTM D 4807 ASTM D 4007	V	GRTHE
GUATEMALA						
SANTO TOMAS DE CASTILLA	PIEDRAS NEGRAS	S	6A	ASTM D 4928 ASTM D 473 ASTM D 4007	A	GTSTP
EQUATORIAL GUINEA						
BATA	CEIBA TERMINAL (FPSO OFFS)	C	6A	ASTM D 4928 ASTM D 4007	A	GOBTC
MALABO	PUNTA EUROPA	S	6A		A	GQMBP
MALABO	ZAFIRO TERMINAL (FPSO OFFS)	I	6A	ASTM D 4928 ASTM D 4007	A	GQMBZ

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCFT TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
INDIA						
CHENNAI	IOCL/CPCL	S	54A		A	INCHI
COCHIN (KOCHI)	KRL/BPCL	S	54A		A	INCOK
KG D6	FPSO DHIRUBHAI	I	54A	ASTM D 96	A	INKGF
MANGALORE	MRPL	S	54A		A	INMGM
MUMBAI	HPCL/BPCL	S	54A		A	INMUH
MUMBAI	ONGC		54A	IP 358 ASTM D 4807	A	INMUO
RAVVA OILFIELD S.YANAM	CAIRN ENERGY	S	54A	ASTM D 96	A	INRWC
SIKKA	RELIANCE	S	54A		A	INSKR
VISAKHAPATNAM (VISAKH)	HPCL	S	54A		A	INVSH

INDONESIA

ANOA NATUNA	ANOA MARINE TERMINAL	I	6	ASTM D 96	A	IDANM
ARDJUNA	ARDJUNA MARINE TERMINAL	I	6	ASTM D 96	A	IDAJM
BALONGAN	BALONGAN TERMINAL	S	6	ASTM D 96	A	IDBGT
BEKAPAI	BEKAPAI TERMINAL	I	6	ASTM D 96	A	IDBPM
BELANAK	BELANAK MARINE TERMINAL	I	6	ASTM D 96	A	IDBKM
BELIDA	BELIDA MARINE TERMINAL	I	6	ASTM D 96	A	IDBDM
BLANG LANCANG	BLANG LANCANG TERMINAL	S	6	ASTM D 96	A	IDBLT
BONTANG	SANTAN TERMINAL	I	6	ASTM D 96	A	IDBTS
BUNYU	BUNYU TERMINAL	I	6		A	IDBUT
CAMAR	CAMAR MARINE TERMINAL	I	6		A	IDCMM
CINTA	CINTA MARINE TYERMINAL	I	6	ASTM D 96	A	IDCNM
DUMAI	CHEVRON TERMINAL	I	6	ASTM D 1796	A	IDDUC
EXPAN	EXPAN TERMINAL	I	6	ASTM D 96	A	IDEXT
KAKAP	KAKAP NATUNA MARINE TERMINAL	I	6	ASTM D 96	A	IDKKN

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KAKAP	KAKAP NATUNA MARINE TERMINAL	I	6	ASTM D 96	A	IDKKM
KASIM (SORONG)	KASIM	S	6	ASTM D 96	A	IDKSK
LALANG	LALANG	I	6	ASTM D 96	A	IDLGL
LAWI LAWI	LAWI LAWI TERMINAL	I	6	ASTM D 96	A	IDLLT
OYONG	OYONG TERMINAL	I	6	ASTM D 96	A	IDOYT
JAMBI -PETROCHINA	PETROCHINA	I	6	ASTM D 96	A	IDPCP
POLENG	POLENG TERMINAL	I	6	ASTM D 96	A	IDPLT
SANTAN	SANTAN TERMINAL	I	6	ASTM D 96	A	IDSTT
SENIPAH	SENIPAH TERMINAL	I	6	ASTM D 96	A	IDSPT
TIAKA	TIAKA	I	6	ASTM D 96	A	IDTKT
TUBAN	TUBAN MARINE TERMINAL	I	6	ASTM D 96	A	IDTBM
UDANG NATUNA	UDANG MARINE TERMINAL	I	6	ASTM D 96	A	IDUDM
WIDURI	WIDURI MARINE TERMINAL	I	6	ASTM D 96	A	IDWDW

IRAN

ASALUYEH	NIOC	S	6A	ASTM D 1744	A	IRASN
BANDAR TAHERI	NIGC	I	6A		A	IRBTN
KHARG ISLAND	NIOC	I	6A	ASTM D 4006 ASTM D 473	A	IRKIA
KHARG ISLAND	NIOC	I	6A	ASTM D 4006 ASTM D 473	A	IRKIB
KHARG ISLAND	NIOC	I	6A	ASTM D 4006 ASTM D 473	A	IRKIC
KHARG ISLAND	NIOC	I	6A	ASTM D 4006 ASTM D 473	A	IRKID
KHARG ISLAND	NIOC	I	6A	ASTM D 4006 ASTM D 473	A	IRKIE
KHARG ISLAND	NIOC	I	6A	ASTM D 4006 ASTM D 473	A	IRKIF
KHARG ISLAND	NIOC	I	6A	ASTM D 4006 ASTM D 473	A	IRKIG

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
KHARG ISLAND	NIOC	I	6A	ASTM D 4006 ASTM D 473	A	IRKIH
LAVAN ISLAND	IOOC	I	6A	ASTM D 4006 ASTM D 473	A	IRLIA
LAVAN ISLAND	IOOC	I	6A	ASTM D 4006 ASTM D 473	A	IRLIB
SIRRI ISLAND	IOOC	S	6A	ASTM D 4006 ASTM D 473	A	IRSII
SOROOSH	IOOC	I	6A	IP 358 ASTM D 4007	A	IRSRI

IRAQ

BASRAH OFF-SHORE	BASRAH OIL TERMINAL (ABOT)	I	6A	ASTM D 4006	A	IQBSA
BASRAH OFF-SHORE	KHOR AL AMAYA OIL TERMINAL (KAAOT)	I	6A	ASTM D 4006	A	IQBSK

IRELAND

BANTRY BAY	CONOCOPHILLIPS BANTRY TERMINALS	I	54A	IP 356 IP 53	A	IEBBC
WHITEGATE	CONOCOPHILLIPS WHITEGATE REFINERY	S	54A	IP 356 IP 53	A	IEWGC

ITALY

AUGUSTA	ESSO	I	54A	ASTM D 4377 ASTM D 4807	A	ITAGE
FALCONARA MARITTIMA	API	I	54A	ASTM D 4007 ASTM D 473	A	ITFAA
FIUMICINO	ERG-TOTAL	I	54A	ASTM D 4377 ASTM D 473	A	ITFCE
GELA	ENI	I	54A	ASTM D 4007 ASTM D 473	A	ITGLE
GENOA	PORTO PETROLI	I	54A	ASTM D 4006 ASTM D 473	A	ITGNP
LIVORNO	ENI	I	54A	ASTM D4007	A	ITLVE

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
MILAZZO	R.A.M.	I	54A	ASTM D 4006 ASTM D 473	A	ITMZR
PORTO MARGHERA	ENI - SAN LEONARDO	I	54A	ASTM D 4928 ASTM D 4807	A	ITVNE
PRIOLO GARGALLO	ISAB NORTH SITE (MELILLI OIL TERMINAL)	I	54A	ASTM D 4377 ASTM D 473	A	ITPRI
SANTA PANAGIA	ISAB SOUTH SITE	I	54A	ASTM D 4377 ASTM D 473	A	ITSPI
SARROCH	SARAS	I	54A	ASTM D 4377 ASTM D 473	A	ITSRS
TARANTO	ENI REFINERY	S/I	54A	ASTM D 4006	A	ITTRE
TERMOLO	TOTAL OFF SHORE PLANT	C	54A	ASTM D 96	A	ITTMT
TRIESTE	S.I.O.T.	I	54A	DIN 51777	A	ITTSS
VADO LIGURE	SARPOM	I	54A	ASTM D 4377 ASTM D 473	A	ITVLS

JAPAN

CHIBA	COSMO OIL CHIBA	I	54A	ASTM D 4006 ASTM D 4007	A	JPCBC
CHIBA	FUJI OIL SODEGAURA	I	54A	ASTM D 4006 ASTM D 4007	A	JPCBF
CHIBA	IDEMITSU CHIBA	I	54A	ASTM D 4006 ASTM D 4007	A	JPCBI
CHIBA	KYOKUTO OIL	I	54A	ASTM D 4377 ASTM D 4807	A	JPCBK
CHITA	IDEMITSU AICHI	C	54A	ASTM D 4006 ASTM D 4007	A	JPCTA
IWAKUNI	NIPPON OIL MARIFU	I	54A	ASTM D 4006 ASTM D 4007	A	JPIWN
KANOKAWA	KANOKAWA TERMINAL	I	54A	ASTM D 4006 ASTM D 4007	A	JPKKT
KASHIMA	KASHIMA OIL	C	54A	ASTM D 4006 ASTM D 4007	A	JPKMO
KAWASAKI	TOA OIL KEIHIN	I	54A	ASTM D 4006 ASTM D 4007	A	JPKWT

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
KAWASAKI	TONENGENERAL KAWASAKI	C	54A	ASTM D 4377 ASTM D 4807	A	JPKWK
KIIRE	NIPPON OIL STORAGE KIIRE	L	54A	ASTM D 4006 ASTM D 4007	A	JPKRN
KIKUMA	TAIYO OIL SHIKOKU	I	54A	ASTM D 4006 ASTM D 4007	A	JPKIT
KIN-NAKAGUSUKU	NANSEI SEKIYU	C	54A	ASTM D 4377 ASTM D 4807	A	JPKNN
MIZUSHIMA	JAPAN-ENERGY MIZUSHIMA	I	54A	ASTM D 4006 ASTM D 4007	A	JPMZJ
MIZUSHIMA	NIPPON OIL MIZUSHIMA	I	54A	ASTM D 4006 ASTM D 4007	A	JPMZN
MURORAN	NIPPON OIL MURORAN	I	54A	ASTM D 4006 ASTM D 4007	A	JPMUN
OITA	NIPPON OIL OITA	I	54A	ASTM D 4006 ASTM D 4007	A	JPOTN
ONAHAMA	ONAHAMA OIL	I	54A	ASTM D 4006 ASTM D 4007	A	JPOHO
OWASE	TOHO OIL	I	54A	ASTM D 4006 ASTM D 4007	A	JPOWT
SAKAI	COSMO OIL SAKAI	I	54A	ASTM D 4006 ASTM D 4007	A	JPSKC
SAKAI	NIPPON OIL OSAKA	I	54A	ASTM D 4006 ASTM D 4007	A	JPSKN
SAKAI	TONENGENERAL SAKAI	C	54A	ASTM D 4377 ASTM D 4807	A	JPSKT
SAKAIDE	COSMO OIL SAKAIDE	I	54A	ASTM D 4006 ASTM D 4007	A	JPSDC
SENDAI	NIPPON OIL SENDAI	I	54A	ASTM D 4006 ASTM D 4007	A	JPSNN
SHIMOTSU	TONENGENERAL WAKAYAMA	C	54A	ASTM D 4377 ASTM D 4807	A	JPSMT
TOKUYAMA	IDEMITSU TOKUYAM	I	54A	ASTM D 4006 ASTM D 4007	A	JPTMI
TOMAKOMAI	IDEMITSU HOKKAIDO	I	54A	ASTM D 4006 ASTM D 4007	A	JPTKI

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
TOYAMA	NIHONNKAI OIL TOYAMA	I	54A	ASTM D 4006 ASTM D 4007	A	JPTYN
UBE	SEIBU OIL	I	54A	ASTM D 4006 ASTM D 4007	A	JPUBS
YOKKAICHI	COSMO OIL YOKKAICHI	I	54A	ASTM D 4006 ASTM D 4007	A	JPYKC
YOKKAICHI	SHOWA-YOKKAICHI	I	54A	ASTM D 4006 ASTM D 4007	A	JPYKS
YOKOHAMA	NIPPON OIL YOKOHAMA	I	54A	ASTM D 4006 ASTM D 4007	A	JPYHN

KAZAKHSTAN

AKTAU	KAZTRANSOIL	S	GOST 3900	GOST 2477 GOST 6370	V	KZAKK
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KENYA

MOMBASA	KENYA PETROLEUM REFINERIES LTD (KPRL)	S/I	60A	ASTM D 4377 ASTM D 473	A	KEMBK
MOMBASA	KENYA PETROLEUM REFINERIES LTD (KPRL)	S/I	60A	ASTM D 4377 ASTM D 473	A	KEMBR

KOREA

DAESAN	HYUNDAI OILBANK	C	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	KRDSH
DAESAN	KOREA NATIONAL OIL CORPORATION	C	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	KRDSK
INCHEON	SK ENEREGY INCHEON COMPLEX	S	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	KRICS
KEOJE ISLANDS	KOREA NATIONAL OIL CORPORATION	S	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	KRKIK

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
ONSAN	KOREA NATIONAL OIL CORPORATION	S	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	KROSK
ONSAN	S-OIL CORPORATION	S	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	KROSS
ULSAN	SK ENERGY CO LTD	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	KRUSS
YOSU	GS CALTEX CORPOATION	C	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	KRYSG
YOSU	KOREA NATIONAL OIL CORPORATION	C	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	KRYSK

KUWAIT

MINA AL AHMADI	KUWAIT OIL COMPANY	S	6A	ASTM D 4007	A	KWMAA
MINA AL AHMADI	KUWAIT OIL COMPANY	S	6A	ASTM D 4007	A	KWMAB
MINA AL AHMADI	KUWAIT OIL COMPANY	S	6A	ASTM D 4007	A	KWMAC
MINA AL ZOUR	SAUDI ARABIAN CHEVRON	S	6	ASTM D 4007	A	KWMZS

LATVIA

VENTSPILS	VENTSPILS NAFTA	S	54	ASTM D 95 ASTM D 473	V	LVPV
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LIBYA

ALJURF	FARWA F.P.S.O.	I	6A	ASTM D 96	A	LYAJF
BOURI	BOURI F.S.O.	I	6A	ASTM D 96	A	LYBOB
ES SIDER	WAHA OIL COMPANY	I	6A	ASTM D 96	A	LYESW
MARSA EL BREGA	SIRTE OIL COMPANY	I	6A	ASTM D 96	A	LYMBS
MARSA EL BREGA	SIRTE OIL COMPANY (CONDENSATE)	I	6A	ASTM D 96	A	LYMBC

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MARSA EL HARIGA	ARABIAN GULF OIL CO. (A.G.O.C.O.)	I	6A	ASTM D 96	A	LYMHA
MELLITAH	MELLITAH GAS	S	6A	ASTM D 96	A	LYMTA
MELLITAH	MELLITAH GAS (CONDENSATE)	S	6A	ASTM D 96	A	LYMTB
RAS LANUF	HAROUGE OIL OPERATIONS (AMNA)	I	6A	ASTM D 96	A	LYRLA
RAS LANUF	HAROUGE OIL OPERATIONS (MESLA)	I	6A	ASTM D 96	A	LYRLB
RAS LANUF	HAROUGE OIL OPERATIONS (SIRTICA)	I	6A	ASTM D 96	A	LYRLC
ZAWIA	AKAKUS OIL OPERATIONS	I	6A	ASTM D 96	A	LYZWA
ZUEITINA	ZUEITINA OIL COMPANY	I	OXY	ASTM D 96	A	LYZTA
ZUEITINA	ZUEITINA OIL COMPANY	I	6A	ASTM D 96	A	LYZTB
ZUEITINA	ZUEITINA OIL COMPANY	I	6A	ASTM D 96	A	LYZTC

LITHUANIA

BUTINGE	BUTINGE	S	GOST 3900	GOST 2477 GOST 6370	V	LTBUB
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MALAYSIA

ABU	ABU MARINE TERMINAL	I	54	ASTM D 4007	A	MYABM
ANGSI	ANGSI MARINE TERMINAL	I	54	ASTM D 4007	A	MYANM
BINTULU	BINTULU CRUDE OIL TERMNAL	I	54	ASTM D 4007	A	MYBTT
BINTULU	BINTULU CRUDE OIL TERMINAL	I	54	ASTM D 4007	A	MYBTC
BINTULU	KIDURONG MARINE TERMINAL	I	54	ASTM D 4007	A	MYBTK
BUNGA RAYA	BUNGA RAYA MARINE TERMINAL	I	54	ASTM D 4007	A	MYBRB
CENDOR	CENDOR MARINE TERMINAL	I	54	ASTM D 4007	A	MYCMM
DULANG	DULANG MARINE TERMINAL	I	54	ASTM D 4007	A	MYDMM
KERTEH	TERENGGANU CONDENSATE TERMINAL	I	54	ASTM D 4007	A	MYKTA
KERTEH	TERENGGANU CRUDE OIL TERMINAL	I	54	ASTM D 4007	A	MYKTB
LABUAN	KIKEH MARINE TERMINAL	I	54	ASTM D 4007	A	MYLBK

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
LABUAN	LABUAN CRUDE OIL TERMINAL	I	54	ASTM D 4007	A	MYLBL
MASA	MASA MARINE TERMINAL	I	54	ASTM D 4007	A	MYMMM
MIRI	MIRI CRUDE OIL TERMINAL	I	54	ASTM D 4007	A	MYMRM
PENARA	PENARA MARINE TERMINAL	I	54	ASTM D 4007	A	MYPMP
PUTERI CAKERAWALA	PUTERI CAKERAWALA MARINE TERMINAL	I	54	ASTM D 4007	A	MYPCP

MAURITANIA

OFF SHORE NOUAKCHOTT	CHINGUETTI	I	6A	ASTM D 4007	A	MRNKC
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MEXICO

CAYO ARCAS	CAYO ARCAS TERMINAL		6A	ASTM D 96	A	MXCAT
CAYO ARCAS	TAKUNTAH (FSO)		6A	ASTM D 96	A	MXCAF
CAYO ARCAS	YUUM KAK NAAB - FPSO		6A	ASTM D 96	A	MXCAY
CIUDAD MADERO (PUERTO MADERO)	PEMEX REFINERY		6A	ASTM D 96	A	MXCMP
COATZACOALCOS	PAJARITOS		6A	ASTM D 96	A	MXCZP
DOS BOCAS	DOS BOCAS		6A	ASTM D 96	A	MXDBT

MOROCCO

MOHAMMEDIA	MOHAMMEDIA TERMINAL	C	54A	ASTM D 4007	V	MAMHT
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MYANMAR

YETAGUN FSO	YETAGUN MARINE TERMINAL	S	6A	ASTM D 96	A	MMYTT
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NETHERLANDS

FLUSHING	TOTAL REFINERY	C	54A	ASTM D 4006 ASTM D 473	V	NLFST
ROTTERDAM / EUROPOORT	BP REFINERY EUROPOORT	I	54A	ASTM D 4928 ASTM D 473	V	NLRDA

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
ROTTERDAM / EUROPOORT	BP REFINERY EUROPOORT	L	54A	ASTM D 4928 ASTM D 473	V	NLRDB
ROTTERDAM / EUROPOORT	KUWAIT PETROLEUM EUROPOORT	C	54A	ASTM D 4928 ASTM D 473	V	NLRDK
ROTTERDAM / EUROPOORT	MAASVLAKTE OLIE TERMINAL	I	54A	ASTM D 4928 ASTM D 473	V	NLRDM
ROTTERDAM / EUROPOORT	MAATSCHAP EUROPOORT TERMINAL	I	54A	ASTM D 4928 ASTM D 473	V	NLRDE
ROTTERDAM / EUROPOORT	SHELL NEDERLAND RAFFINADERIJ EUROPOORT	I	54A	ASTM D 4928 ASTM D 473	V	NLRDS
ROTTERDAM / EUROPOORT	TEAM TERMINAL EUROPOORT	I	54A	ASTM D 4928 ASTM D 473	V	NLRDT
ROTTERDAM / EUROPOORT	VOPAK TERMINAL EUROPOORT	S/C	54A	ASTM D 4928 ASTM D 473	V	NLRDV

NETHERLANDS ANTILLES

BONAIR RINCON	BOPEC	S	6A	ASTM D 4006 ASTM D 473	A	ANBRA
CURACAO, BULLENBAY	BULLEN BAY	S	6A	ASTM D 4006 ASTM D 473	A	ANCBA
CURACAO, WILLEMSTAD	ISLA REFINERIA	S	6A	ASTM D 4006 ASTM D 473	A	ANCWI
ST EUSTATIUS	STATIA TERMINALS	S	6A	ASTM D 4928 ASTM D 473	A	ANSTT

NEW ZEALAND

MARSDEN POINT	NEW ZEALAND REFINING CO. (NZRC)	I	54A	ASTM D 4928 ASTM D 473 ASTM D 96	A	NZMPN
NEW PLYMOUTH	NEW PLYMOUTH	R	54A	ASTM D 95 ASTM D 473 ASTM D 96	A	NZNPT
NEW PLYMOUTH	NEWTON KING	S	54A	ASTM D 95 ASTM D 473 ASTM D 96	A	NZNPK
WHANGAREI	NZ REFINING COMPANY	I	54A	ASTM D 4928 ASTM D 473	A	NZWGR

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
NIGERIA						
ABO	ABO	I	6A	ASTM D 4006	A	NGABA
AGBAMI	AGBAMI	I	6A	ASTM D 4006	A	NGAGA
AMANDA	AMANDA	I	6A	ASTM D 4006	A	NGAMA
ANTAN	ANTAN	I	6A	ASTM D 4006	A	NGANA
BONGA	BONGA	I	6A	ASTM D 4006	A	NGBGB
BONNY	BONNY	I	6A	ASTM D 4006	A	NGBNT
BRASS	BRASS RIVER	S	6A	ASTM D 4006	A	NGBRT
EA FIELD	EA	I	6A	ASTM D 4006	A	NGEAT
ERHA	ERHA	I	6A	ASTM D 4006	A	NGERT
ESCRAVOS	ESCRAVOS	S	6A	ASTM D 4006	A	NGEST
FORCADOS	FORCADOS	S	6A	ASTM D 4006	A	NGFOT
IMA	IMA	I	6A	ASTM D 4006	A	NGIMT
ODUDU	ODUDU	I	6A	ASTM D 4006	A	NGODT
OKONO	OKONO	C	6A	ASTM D 4006	A	NGOKT
OKWORI	OKWORI	I	6A	ASTM D 4006	A	NGOWT
PENNINGTON	PENNINGTON	I	6A	ASTM D 4006	A	NGPNT
QUA IBOE	QUA IBOE	I	6A	ASTM D 4006	A	NGQIT
UKPOKITI	UKPOKITI	I	6A	ASTM D 4006	A	NGUKT
YOHO	YOHO	I	6A	ASTM D 4006	A	NGYHT
NORWAY						
BALDER	ESSO	C	54A	ASTM D 4928	A	NOBLE
BERGEN	STATOIL MONGSTAD	C	54A	ASTM D 4006 ASTM D 473	A	NOBNS
JOTUN	ESSO	I	54A	ASTM D 4928	A	NOJOE
MONGSTAD	STATOILHYDRO MONGSTAD	I	54A	ASTM D 4928	V	NOMGS

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STURE	NORSK HYDRO	I	54A	ASTM D 4928	A	NOSTN
STURE	STATOILHYDRO STURE	I	54A	ASTM D 4928	V	NOSTS
TONSBERG	SLAGENTANGEN	I	54A	ASTM D 4928 ASTM D 473	A	NOTBS

OMAN

MINA AL FAHAL	PETROLEUM DEVELOPMENT OMAN	I	24	ASTM D 96	A	OMMFP
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PAKISTAN

KARACHI	NATIONAL REFINERY LTD.		24A	ASTM D 96	A	PKKRN
KARACHI	PAK ARAB REFINERY LTD.	S	24A	ASTM D 96	A	PKKRA
KARACHI	PAK ARAB REFINERY LTD.	S	24A	ASTM D 96	A	PKKRB
KARACHI	PAK ARAB REFINERY LTD.	S	24A	ASTM D 96	A	PKKRC
KARACHI	PAKISTAN REFINERY LTD.		24A	ASTM D 96	A	PKKRD
PORT QASIM	BOSICOR PAKISTAN LTD.	S	24A	ASTM D 96	A	PKPOB

PANAMA

CHIRIQUI GRANDE	PETROTERMINAL DEPANAMA	S	6A		A	PACGP
PUERTO ARMUELLES	PETROTERMINAL DEPANAMA	S	6A		A	PAPAP

PAPUA NEW GUINEA

KUMUL	KUMUL MARINE TERMINAL	I	6A	ASTM D 96	A	PGGPK
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PERU

BAYOVAR	PETROPERU TERMINAL BAYOVAR	S	6A	ASTM D 4007	A	PEBYP
CALLAO	REFINERIA CONCHÁN	C	6A		A	PECLA
CALLAO	REFINERIA LA PAMPILLA	C	6A	ASTM D 4007	A	PECLB
TALARA	PETROPERU TERMINAL TALARA	C	6A	ASTM D 4007	A	PETLP

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PHILIPPINES						
BATAAN	PETRON BATAAN REFINERY	C	54A	ASTM D 4007	A	PHBTP
BATANGAS	SHELL TABANGAO REFINERY	I	54A	ASTM D 4006 ASTM D 473	A	PHBGS
PALAWAN	FPSO RUBICON INTREPID	C	54A	ASTM D 1796	A	PHPWA
PALAWAN	MALAMPAYA PLATFORM	I	54A	ASTM D 4007	A	PHPWB
PALAWAN	MATINLOC PLATFORM	C	54A	ASTM D 4007	A	PHPWC
PALAWAN	NIDO PLATFORM	C	54A	ASTM D 4007	A	PHPWD
POLAND						
GDANSK	PORT POLNOCNY	I	54A	ASTM D 4377 ASTM D 473	A	PLGDP
PORTUGAL						
LEIXÕES	PETROGAL	I	54A	ASTM D 4377 ASTM D 4807	A	PTLXP
SINES	PETROGAL	I	54A	ASTM D 4006 ASTM D 473	A	PTSSP
SINES	PETROGAL	I	54A	ASTM D 4006 ASTM D 473	A	PTSSL
QATAR						
AL SHAHEEN	MAERSK OIL QATAR - FSO	I	54A	ASTM D 4007	A	QAASM
HALUL ISLAND	QATAR PETROLEUM	I	54A	ASTM D 4007	A	QAHIQ
MESAIEED	QATAR PETROLEUM	I	6	ASTM D 4007	A	QAMSQ
RAS LAFFAN	RAS GAS	S	24A	ASTM D 4007	A	QARLA
RAS LAFFAN	RAS GAS	S	24A	ASTM D 4007	A	QARLB
RAS LAFFAN	RAS GAS	S	24A	ASTM D 4007	A	QARLC
RAS LAFFAN	RAS GAS	S	24A	ASTM D 4007	A	QARLD

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
ROMANIA						
CONSTANTZA	OIL TERMINAL	C	54A	ASTM D 96	A	ROCSO
RUSSIA						
DE-KASTRI	DE-KASTRI TERMINAL	I	54A	ASTM D 4377 ASTM D 4807	V	RUDKT
DE-KASTRI	DE-KASTRI TERMINAL	S	54A	GOST 2477 GOST 6370	V	RUDKD
DE-KASTRI	DE-KASTRI TERMINAL	S	54A	GOST 2477 GOST 6370	V	RUDKK
KANDALAKSHA	VITINO	C	GOST 3900	GOST 2477 GOST 6370	V	RUKLV
KANDALAKSHA	VITINO	C	GOST 3900	GOST 2477 GOST 6370	V	RUKLT
KROTOVKA	KROTOVKA ST.		54A	GOST 2477 GOST 6370	V	RUKTK
NOVOROSSIYSK	CPC TERMINAL	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOA
NOVOROSSIYSK	CPC TERMINAL	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOB
NOVOROSSIYSK	CPC TERMINAL	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOC
NOVOROSSIYSK	CPC TERMINAL	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOA
NOVOROSSIYSK	CPC-R TERMINAL	I	54A	GOST 2477 GOST 6370	V	RUNOB
NOVOROSSIYSK	SHEKSHARIS	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOE
NOVOROSSIYSK	SHEKSHARIS	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOF
NOVOROSSIYSK	SHEKSHARIS	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOG
NOVOROSSIYSK	SHEKSHARIS	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOH

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
NOVOROSSIYSK	SHESKHARIS	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOI
NOVOROSSIYSK	SHESKHARIS	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOJ
NOVOROSSIYSK	SHESKHARIS	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOK
NOVOROSSIYSK	SHESKHARIS	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOL
NOVOROSSIYSK	SHESKHARIS	S	GOST 3900	GOST 2477 GOST 6370	V	RUNOM
NOVOROSSIYSK	SHESKHARIS	S	GOST 3900	GOST 2477 GOST 6370	V	RUNON
NOVOROSSIYSK	SHESKHARIS	I	54A	GOST 2477 GOST 6370	V	RUNOO
NOVOSERGIEVSKAYA	NOVOSERGIEVSKAYA ST.		54A	GOST 2477 GOST 6370	V	RUNSN
OKRUZHNOE ARIA - OKHOTSK	OKRUZHNOE - SAKHALIN	S	54A	GOST 2477 GOST 6370	V	RUOAA
OKRUZHNOE ARIA	OKRUZHNOE - SAKHALIN	S	54A	GOST 2477 GOST 6370	V	RUOAB
PORT KAVKAZ	KERCH STRAIGHT	C	GOST 3900	GOST 2477 GOST 6370	V	RUPKA
PORT KAVKAZ	KERCH STRAIGHT	C	GOST 3900	GOST 2477 GOST 6370	V	RUPKB
PRIMORSK	PRIMORSK	I	GOST 3900	GOST 2477 GOST 6370	V	RUPRA
PRIMORSK	PRIMORSK	I	GOST 3900	GOST 2477 GOST 6370	V	RUPRB
PRIMORSK	SMNP PRIMORSK	I	GOST 3900	GOST 2477 GOST 6370	V	RUPRC
TUAPSE	TUAPSE	I	GOST 3900	GOST 2477 GOST 6370	V	RUTUA
TUAPSE	TUAPSE	I	GOST 3900	GOST 2477 GOST 6370	V	RUTUB
VITYAZ ARIA	VITYAZ	C	54A	ASTM D 4007	V	RUVAA
VITYAZ ARIA	VITYAZ	C	54A	ASTM D 4007	V	RUVAB

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SAUDI ARABIA						
JU'AYMAH	SAUDI ARAMCO	I	24	ASTM D 4007	A	SAJUS
RAS AL KHAFJI	KHAFJI JOINT OPERATIONS CO.	S	6	ASTM D 4007	A	SARKJ
RAS TANURA	SAUDI ARAMCO	I	24	ASTM D 4007	A	SARTA
RAS TANURA	SAUDI ARAMCO	S	6	ASTM D 4007	A	SARTB
YANBU	SAUDI ARAMCO	I	6	ASTM D 4007	A	SAYBS
SENEGAL						
DAKAR	SAR	S	54	ASTM D 4007	V	SNDKS
SINGAPORE						
JURONG (MOBIL)	EXXONMOBIL JURONG	I	6A	ASTM D 4377 ASTM D 473	A	SGSGJ
SINGAPORE PORT	EXXONMOBIL OVL2	I	6A	ASTM D 4377 ASTM D 473	A	SGSGO
PULAU AYER CHAWAN (ESSO)	EXXONMOBIL PAC	I	6A	ASTM D 4377 ASTM D 473	A	SGSGP
PULAU BUKOM	SHELL BUKOM	C	54A	ASTM D 4007	A	SGSGB
PULAU BUKOM	SHELL BUKOM SBM	C	54A	ASTM D 4007	A	SGSGS
JURONG ISLAND (SRC)	SRC JURONG ISLAND	I	54A	ASTM D 4377 ASTM D 473	A	SGSGI
SINGAPORE PORT	SRC OVL1	I	54A	ASTM D 4377 ASTM D 473	A	SGSGR
SOUTH AFRICA						
DURBAN	SAPREF(SOUTH TANK FARM-STF)	I	6A	ASTM D 96	A	ZADBS
MOSSEL BAY	PETROSA	I	60A	ASTM D 4928 ASTM D 473	A	ZAMBP
SALDANHA BAY	PETROSA	I	60A	ASTM D 4928 ASTM D 473	A	ZASBP

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DURBAN	NORTH TANK FARM	I	60A	ASTM D 4928 ASTM D 473	A	ZADNN
DURBAN	SOUTH TANK FARM	I	60A	ASTM D 4928 ASTM D 473	A	ZADNS
DURBAN	NARCOS	I	60A	ASTM D 4928 ASTM D 473	A	ZADNC

SPAIN

ALGECIRAS	CEPSA	C	54A	ASTM D 4928 ASTM D 473	A	ESAGC
BILBAO	PETRONOR (REPSOL)	C/I	54A	ASTM D 6304 IP 483	A	ESBIP
CARTAGENA	REPSOL	C	54A	ASTM D 4007	A	ESCGR
CASTELLON	BP OIL	C	54A	ASTM D 4377 ASTM D 473	A	ESCSB
LA CORUÑA	REPSOL	C	54A	ISO 3733 ASTM D 473	A	ESLCR
HUELVA	CEPSA	C	54A	ASTM D 4007	A	ESHVC
PUERTOS DE TENERIFE (SANTA CRUZ DE TENERIFE)	CEPSA	C	54A	ASTM D 4006 ASTM D 473	A	ESSCC
TARRAGONA	ASESA	C	54A	ASTM D 4007	A	ESTGA
TARRAGONA	REPSOL	C	54A	ASTM D 4007	A	ESTGR

SRI LANKA

COLOMBO	CEYPETCO ORUGODAWATTA	S	54A	ASTM D 4007	A	SLCLC
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ST. LUCIA

CUL-DE-SAC BAY	HESS OIL ST. LUCIA LTD. (HOSLL)	S	6A	ASTM D 4006 ASTM D 473	A	LCCSH
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SWEDEN						
BROFJORDEN	SCANRAFF	R	54A	ASTM D 4377 ASTM D 473	A	SEBJS
GOTHENBURG	PREEM	C	54A	ASTM D 4377 ASTM D 473	A	SEGTP
GOTHENBURG	SHELL	C	54A	ASTM D 4377 ASTM D 473	A	SEGTS
SYRIA						
BANIAS	SCOT BANIAS TERMINAL	S	24	ASTM D 4007	A	SYBNS
TARTOUS	SCOT TARTOUS TERMINAL	S	54	ASTM D 95	A	SYTTS
TAIWAN						
KAOHSIUNG	KAOHSIUNG	C	6A	ASTM D 95 ASTM D 1796	A	TWKST
MAILIAO	MAILIAO	C	6A	ASTM D 95 ASTM D 1796	A	TWMLT
SHA-LUNG	SHA-LUNG	C	6A	ASTM D 95 ASTM D 1796	A	TWSLT
TANZANIA						
DAR ES SALAAM	TAZAMA	C	54A	ASTM D 4007	A	TZDST
THAILAND						
ARTHIT	BONGKOT TERMINAL	L	6A	ASTM D 96	A	THARB
BENCHAMAS	FSO BENCHAMAS EXPLORER	I	6A	ASTM D 4007	A	THBCF
BONGKOT	BONGKOT TERMINAL	L	6A	ASTM D 96	A	THBGT
ERAWAN	ERAWAN GASFIELD	I	6A	ASTM D 4007	A	THEWG
JASMINE	JASMINE VENTURE MV7	I	6A	ASTM D 1796	A	THJSV

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
MAPTAPHUT	PTT AR BRANCH 2 (REFINERY)	C	54A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	THMTP
MAPTAPHUT	STAR PETROLEUM	C	54A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	THMTS
ERAWAN	ERAWAN GASFIELD	I	6A	ASTM D 4007	A	THPLE
PATTANI	PLFSO 'PATTANI SPIRIT'	I	6A	ASTM D 4007	A	THPNF
SRIRACHA	PTT SEA BERTH	C	6A	ASTM D 4007	A	THPTS
RAYONG	IRPC	C	54A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	THRYI
SRIRACHA	ESSO MBM	I	6A	ASTM D 4007	A	THSRE
SRIRACHA	THAI OIL SBM 1-2 &CBM	C	54A	ASTM D 4007	A	THSRT
TANTAWAN	FSO TANTAWAN EXPLORER	I	6A	ASTM D 4007	A	THTTF
KOH SI CHANG TPP	TPP	C	54A	ASTM D 4007	A	THTPP

TRINIDAD

GALEOTA POINT	BHP BILITON	I	6A	ASTM D 4006 ASTM D 473	A	TTGPH
GALEOTA POINT	BP TRINIDAD AND TOBAGO LLC	I	6A	ASTM D 4006 ASTM D 473	A	TTGPB

TUNISIA

ASHTART OFF SHORE	IFRIKIA II	I	54	ASTM D 96	V	TNASI
BIZERTE	STIR	C	54	ASTM D 4007	V	TNBZS
DIDON OFF SHORE	DIDON	S	6	ASTM D 4007	V	TNDDD
LA SKHIRA	TRAPSA	S	54	ASTM D 96	V	TNLST
LA SKHIRA	TRAPSA	S	54	ASTM D 96	V	TNLSA
LOUDNA OFF SHORE	LENDEN	I	54A	ASTM D 4007	V	TNOUL
ZARZIS	MARETAP	I	54	ASTM D 4007	V	TNZRM

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
TURKEY						
ALIAGA-IZMIR	TUPRAS	C	54A	ASTM D 4928 ASTM D 473	A	TRAIT
CEYHAN	BOTAS TERMINAL	I	24A	ASTM D 4007	A	TRCYB
CEYHAN	CEYHAN MARINE TERMINAL (BTC PIPELINE)	I	54A	ASTM D 4928 ASTM D 473	A	TRCYM
TUTUNCIFILIK-IZMIT	TUPRAS	C	54A	ASTM D 4928 ASTM D 473	A	TRTUT
TURKMENISTAN						
ALADJA	KARAGEL	S	GOST 3900	GOST 2477 GOST 6370	V	TMALK
OKAREM	OKAREM	S	GOST 3900	GOST 2477 GOST 6370	V	TMOKT
UKRAINE						
ODESSA	ODESSA OIL TERMINAL	S	GOST 3900	GOST 2477 GOST 6370	V	UAODT
THEODOSIA	THEODOSIA	S	GOST 3900	GOST 2477 GOST 6370	V	UATHT
YUZHNY	MARINE OIL TERMINAL *PIVDENNIY*	S	GOST 3900	GOST 2477 GOST 6370	V	UAYZM
UNITED ARAB EMIRATES						
DAS ISLAND	ADMA OPCO	I	24	ASTM D 96	A	AEDIA
FATEH	DUBAI PETROLEUM ESTABLISHMENT	I	6	ASTM D 4928	A	AEFTD
JEBEL DHANNA	ADCO	I	6	ASTM D 4007	A	AEJDA
ZIRKU ISLAND	ZADCO	I	6	ASTM D 4007	A	AEZIZ

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCFT TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
UNITED KINGDOM						
OFF SHORE	ALBA FSU		54A		A	GBALF
OFF SHORE	BERYL	I	54A	IP 356 ASTM D 473	A	GBBLO
CORYTON	PETROPLUS	R	54A	ASTM D 4928 ASTM D 4807	A	GBCTP
FAWLEY	ESSO FAWLEY	I	54A	IP 386 ASTM D 4807	A	GBFWE
FLOTTA	FLOTTA	I	54A	IP 386	A	GBFLT
GLASGOW	FINNART	S	54A	IP 386 IP 53	A	GBGGF
HAMBLE	HAMBLE	I	54A	ASTM D 4928 ASTM D 4807	A	GBHMA
HOUND POINT	HOUND POINT	I	54A	IP 386 IP 53	A	GBHPT
TETNEY	TETNEY (HUMBER ESTUARY)	R	54A	IP 386 ASTM D 4807	A	GBHMB
IMMINGHAM	APT	I	54A	IP 386 ASTM D 4807	A	GBIMA
LIVERPOOL BAY	LIVERPOOL BAY OSI	I	54A	IP 386 IP 359	A	GBLPO
MILFORD HAVEN	MURCO	I	54A	ASTM D 4006 ASTM D 473	A	GBMHM
NIGG BAY	NIGG BAY	S	54A	IP 386 ASTM D 4807	A	GBNBT
OFF SHORE	ANASURIA FPSO		54A		A	GBOSA
OFF SHORE	AOKA MIZU FPSO		54A		A	GBOSM
OFF SHORE	APOLLO SPIRIT FSO	I	54A	IP 386	A	GBOSS
OFF SHORE	BLEO HOLM FPSO		54A		A	GBOSB
OFF SHORE	CAPTAIN FPSO		54A		A	GBOSC
OFF SHORE	GRYPHON FPSO		54A		A	GBOSG
OFF SHORE	HOEWENE BRIM FPSO		54A		A	GBOSH
OFF SHORE	MAERSK CURLEW FPSO		54A		A	GBOSF

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
OFF SHORE	PETROJARL FOINAVEN FPSO		54A		A	GBOSP
OFF SHORE	SCHIEHALLION FPSO		54A		A	GBOSO
OFF SHORE	TRITON FPSO		54A		A	GBOST
OFF SHORE	UISGE GORM FPSO		54A		A	GBOSU
PEMPROKE	CHEVRON	I	54A	IP 386 ASTM D 473	A	GBPBC
SULLOM VOE	SULLOM VOE	I	54A	IP 386 ASTM D 473	A	GBSVT
TEESIDE	CONOCOPHILLIPS	I	54A	IP 386	A	GBTSC
TRANMERE	SHELL TRANMERE	I	54A	IP 386 IP 483	A	GBTMS

UNITED STATES

ALLIANCE, LA	CONOCOPHILLIPS		6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USALC
ANACORTES, WA	SHELL OIL PRODUCTS US	I	6A	ASTM D 4928 ASTM D 473	A	USANS
ANACORTES, WA	TESORO	I	6A	ASTM D 4928 ASTM D 473	A	USANT
BATON ROUGE, LA	EXXONMOBIL	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USBRE
BATON ROUGE, LA	EXXONMOBIL REFINERY	I	6A	ASTM D 4377 ASTM D 473	A	USBRR
BAYTOWN, TX	BAYTOWN REFINERY (EXXONMOBIL)	I	6A	ASTM D 4377 ASTM D 473 ASTM D 1796	A	USBYR
BEAUMONT, TX	EXXONMOBIL	I	6A	ASTM D 4928 ASTM D 473	A	USBME
BEAUMONT, TX	OTTI	I	6A	ASTM D 4928 ASTM D 473	A	USBMO
BENICIA, CA	VALERO	I	6A	ASTM D 4928 ASTM D 473 ASTM D 4007	A	USBNV

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BLAINE, WA	BP	C	6A	ASTM D 4928 ASTM D 473	A	USBLB
CARSON, CA	BP OIL	I	6A	ASTM D 4006 ASTM D 473	A	USCSB
CARSON, CA	KINDER MORGAN	C	6A	ASTM D 4006 ASTM D 473	A	USCSK
CHALMETTE, LA	CHALMETTE REFINING	I	6A	ASTM D 4006 ASTM D 473	A	USCMR
CHERRY POINT, WA	BP OIL	C	6A	ASTM D 4928 ASTM D 473 ASTM D 4007	A	USCHB
CONVENT, LA	MOTIVA	C	6A	ASTM D 4928 ASTM D 473	A	USCNM
CORPUS CHRISTI, TX	CITGO	I	6A	ASTM D 4006 ASTM D 473	A	USCCC
CORPUS CHRISTI, TX	FLINT HILLS EAST	I	6A	ASTM D 4006 ASTM D 473	A	USCCF
CORPUS CHRISTI, TX	FLINT HILLS INGLESIDE	C	6A	ASTM D 4006 ASTM D 473	A	USCCI
CORPUS CHRISTI, TX	FLINT HILLS WEST	C	6A	ASTM D 4006 ASTM D 473	A	USCCE
CORPUS CHRISTI, TX	MAGELLAN	C	6A	ASTM D 4006 ASTM D 473	A	USCCM
CORPUS CHRISTI, TX	NUSTAR NORTH BEACH TERMINAL	C	6A	ASTM D 4377 ASTM D 473	A	USCCN
CORPUS CHRISTI, TX	TRIGEANT	C	6A	ASTM D 4006 ASTM D 473	A	USCCT
CORPUS CHRISTI, TX	VALERO AVERY POINT	C	6A	ASTM D 4377 ASTM D 473	A	USCCV
CORPUS CHRISTI, TX	VALERO TULE LAKE	C	6A	ASTM D 4377 ASTM D 473	A	USCCL
DEER PARK, TX	SHELL REFINERY	I	6A	ASTM D 4377 ASTM D 473 ASTM D 1796	A	USDPS

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCFTABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
DELAWARE CITY, DE	MOTIVA	I	6A	ASTM D 4006 ASTM D 4377 ASTM D 473 ASTM D 4007	A	USDCM
EL SEGUNDO, CA	CHEVRON TEXACO	I	6A	ASTM D 4006 ASTM D 473	A	USESC
FERNDALDE, WA	CONOCOPHILLIPS	I	6A	ASTM D 4928 ASTM D 473	A	USFDC
FORT MIFFLIN, PA	SUN	C	6A	ASTM D 4377 ASTM D 473 ASTM D 4007	A	USFMS
FREEPORT, TX	CONOCOPHILLIPS	C	6A	ASTM D 4377 ASTM D 4807	A	USFPC
FREEPORT, TX	TEPPCO SEAWAY	I	6A	ASTM D 4377 ASTM D 4807	A	USFPT
GARYVILLE, LA	MARATHON	C	6A	ASTM D 4928 ASTM D 473	A	USGVM
HOG ISLAND, PA	SUN OIL	C	6A	ASTM D 4377 ASTM D 473 ASTM D 4007	A	USHIS
HOUSTON, TX	HOUSTON FUEL OIL	I	6A	ASTM D 4377 ASTM D 473 ASTM D 1796	A	USHTF
HOUSTON, TX	HOUSTON REFINING	C	6A	ASTM D 4377 ASTM D 473 ASTM D 1796	A	USHTR
HOUSTON, TX	MAGELLAN MIDSTREAM	C	6A	ASTM D 4006 ASTM D 4377 ASTM D 473	A	USHTM
HOUSTON, TX	OIL TANKING	I	6A	ASTM D 4377 ASTM D 473 ASTM D 1796	A	USHTO
HOUSTON, TX	PASADENA REFINING	C	6A	ASTM D 4377 ASTM D 473 ASTM D 1796	A	USHTP
HOUSTON, TX	VALERO	C	6A	ASTM D 4377 ASTM D 473 ASTM D 1796	A	USHTV

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCFTABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
KROTZ SPRINGS, LA	VALERO	C	6A	ASTM D 4007	A	USKSV
LAKE CHARLES, LA	CITGO	I	6A	ASTM D 4928 ASTM D 473	A	USLCC
LAKE CHARLES, LA	CONOCOPHILLIPS	I	6A	ASTM D 4928 ASTM D 4807	A	USLCP
LINDEN, NJ	CONOCOPHILLIPS - BAYWAY REFINERY	C	6A	ASTM D 96	A	USLDC
LONG BEACH, CA	SHELL	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USLBS
LOS ANGELES, CA	BP	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USLAB
LOS ANGELES, CA	CHEVRONTEXACO	I	6A	ASTM D 4006 ASTM D 473	A	USLAT
LOS ANGELES, CA	CONOCOPHILLIPS	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USLAC
LOS ANGELES, CA	EXXONMOBIL	C	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USLAE
LOS ANGELES, CA	KINDER MORGAN	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USLAK
LOS ANGELES, CA	PACIFIC TERMINALS	C	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USLAP
LOS ANGELES, CA	SHELL	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USLAS
LOS ANGELES, CA	VALERO	C	6A	ASTM D 4377 ASTM D 473	A	USLAV
MANTUA, NJ	CITGO	C	6A	ASTM D 4377 ASTM D 473 ASTM D 4007	A	USMTC
MARCUS HOOK, PA	SUN	C	6A	ASTM D 4377 ASTM D 473 ASTM D 4007	A	USMHC

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCFTABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
MARTINEZ, CA	ST SERVICES	C	6A	ASTM D 4928 ASTM D 473 ASTM D 4007	A	USMZS
MARTINEZ, CA	TESORO	C	6A	ASTM D 4928 ASTM D 473 ASTM D 4007	A	USMZT
MERAUX, LA	MURPHY, LA		6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USMXT
MOBILE, AL	ALABAMA BULK		6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USMOA
MOBILE, AL	EOTT		6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USMOE
MOBILE, AL	SHELL CHEMICAL		6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USMOS
MOBILE, AL	TRIGENT		6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USMOT
NEDERLAND, TX	CHEVRON TERMINAL	I	6A	ASTM D 4928 ASTM D 473	A	USNLC
NEDERLAND, TX	SUN	I	6A	ASTM D 4928 ASTM D 473	A	USNLS
NORCO, LA	MOTIVA		6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USNCM
NORCO, LA	VALERO		6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USNCV
OFF SHORE, LA	LOOP	I	6A	ASTM D 4928 ASTM D 473	A	USOLL
PASCAGOULA, MS	CHEVRON		6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USPSC
PAULSBORO, NJ	VALERO	I	6A	ASTM D 4377 ASTM D 473 ASTM D 4007	A	USPBV

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
PERTH AMBOY, NJ	CHEVRON TEXACO	C	6A	ASTM D 4006 ASTM D 473	A	USPEC
PORT ARTHUR, TX	TOTAL	I	6A	ASTM D 4928 ASTM D 473	A	USPAT
PORT ARTHUR, TX	VALERO	C	6A	ASTM D 4928 ASTM D 473	A	USPAV
PORT NECHES, TX	MOTIVA	I	6A	ASTM D 4928 ASTM D 473	A	USPNM
PORT READING, NJ	HESS CORPORATION	C	6A	ASTM D 96	A	USPRH
PORTLAND, ME	PORTLAND PIPELINE	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USPLP
RICHMOND, CA	CHEVRON TEXACO REFINERY	I	6A	ASTM D 4928 ASTM D 473 ASTM D 4007	A	USRMC
RODEO, CA	CONOCOPHILLIPS	C	6A	ASTM D 4928 ASTM D 473 ASTM D 4007	A	USRDC
SAN FRANCISCO, CA	SHELL	I	6A	ASTM D 4928 ASTM D 473 ASTM D 4007	A	USSFS
SANTA FE SPRING, CA	GOLDEN WEST	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USSTG
SANTA FE SPRING, CA	POWERINE OIL	C	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USSTP
SAVANNAH, GA	NUSTAR ENERGY REFINERY	S	6A	ASTM D 95 ASTM D 473 ASTM D 4007	A	USSVN
ST ROSE, LA	INTER'L MATEX TANK		6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USSRI
ST. JAMES, LA	CAPLINE	I	6A	ASTM D 4928 ASTM D 473	A	USSJC
ST. JAMES, LA	NUSTAR	I	6A	ASTM D 4928 ASTM D 473	A	USSJN

* C = Ship's Composite

I = Inline

L = Line Manual

R = Shipboard

S = Shore Tank

COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCFT TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
ST. JAMES, LA	SUGARLAND	I	6A	ASTM D 4928 ASTM D 473	A	USSJS
TEXAS CITY, TX	BP	I	6A	ASTM D 4928 ASTM D 473	A	USTCB
TEXAS CITY, TX	MARATHON (TEPPCO & BP DOCKS)	I	6A	ASTM D 4928 ASTM D 473	A	USTCM
TEXAS CITY, TX	TEPPCO	I	6A	ASTM D 4928 ASTM D 473	A	USTCT
TEXAS CITY, TX	VALERO (TEPPCO DOCKS & BP DOCKS)	I	6A	ASTM D 4928 ASTM D 473	A	USTCV
TRAINER, PA	CONOCOPHILLIPS	C	6A	ASTM D 4377 ASTM D 473 ASTM D 4007	A	USTRC
VALDEZ, AK	ALYESKA MARINE	I	6A	ASTM D 4377 ASTM D 473 ASTM D 4007	A	USVZA
WESTVILLE, NJ	COASTAL	C	6A	ASTM D 4377 ASTM D 473 ASTM D 4007	A	USWVC
WILMINGTON, CA	FLETCHER OIL	C	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USWNF
WILMINGTON, CA	KINDER MORGAN	I	6A	ASTM D 4006 ASTM D 473 ASTM D 4007	A	USWNK
WOOD RIVER, IL	MARATHON		6A	ASTM D 96	A	USWRM
YORKTOWN	WESTERN REFINERY YORKTOWN	I	6A	ASTM D 4006	A	USYTW
US VIRGIN ISLANDS						
LIMETREE BAY, ST. CROIX	HOVENSA LLC	S	6A	ASTM D 4006 ASTM D 473	A	VILTH

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCF TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
UZBEKISTAN						
BUKHARA	BUKHARA OIL REFINERY	S	54	GOST 2477 GOST 6370	V	UZBKR
FERGANA	FERGANA OIL REFINERY	S	54	GOST 2477 GOST 6370	V	UZFR

VENEZUELA

BAJO GRANDE	PDVSA	S	6A	ASTM D 4006 ASTM D 473	A	VEBGP
EL TABLAZO	PDVSA	S	6A	ASTM D 4006 ASTM D 473	A	VEETP
JOSE	PDVSA	S	6A	ASTM D 4006 ASTM D 473	A	VEJOE
JOSE	PETROZUATA	S	6A	ASTM D 4006 ASTM D 473	A	VEJOP
JOSE	TAEJ	S	6A	ASTM D 4006 ASTM D 473	A	VEJON
JOSE	TAEJ	S	6A	ASTM D 4006 ASTM D 473	A	VEJOS
JOSE	TOJ	S	6A	ASTM D 4006 ASTM D 473	A	VEJOT
LA SALINA	PDVSA	S	6A	ASTM D 4006 ASTM D 473	A	VELSP
PUNTA CAMACHO	PRALCA	S	6A		A	VEPCP
PUERTO LA CRUZ	GUARAGUAO	S	6A	ASTM D 4006 ASTM D 473	A	VEPLG
PUERTO LA CRUZ	PDVSA	S	6A	ASTM D 4006 ASTM D 473	A	VEPLP
PUERTO MIRANDA	PDVSA	S	6A	ASTM D 4006 ASTM D 473	A	VEPMP

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COUNTRY/PORT	TERMINAL	SAMPLE SOURCE*	VCFT TABLE	S+W TESTS METHODS	WEIGHT AIR/VAC	CODE
VIET NAM						
VUNG TAU	CHI LINH	I	54A	ASTM D 4007	A	VNVUC
VUNG TAU	DAI HUNG FSO	I	54A	ASTM D 4007	A	VNVUD
VUNG TAU	QUEENSWAY SU TU VANG FSO	I	54A	ASTM D 4007	A	VNVUQ
VUNG TAU	RANG DONG MV17 FSO	I	54A	ASTM D 4007	A	VNVUR
VUNG TAU	RONG DOI FSO	I	54A	ASTM D 4007	A	VNVUF
VUNG TAU	RUBY PRINCESS	I	54A	ASTM D 4007	A	VNVUA
VUNG TAU	SONG DOC PRIDE MV19	I	54A		A	VNVUS
VUNG TAU	THAIBINH VN FSO	I	54A	ASTM D 4007	A	VNVUP
VUNG TAU	VIETSOVPETRO 01	I	54A	ASTM D 4007	A	VNVUV
YEMEN						
ASH SHIHR	ASH SHIHR	I	6A	ASTM D 4377 ASTM D 473 ASTM D 96	A	YEASA
RAS ISA	SAFER	I	6	ASTM D 4377 ASTM D 473 ASTM D 96	A	YERIS

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L = Line Manual

R = Shipboard

S = Shore Tank

VCF

TABLE

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
TABLE 6				
CANADA	COME-BY-CHANCE, NF	NORTH ATLANTIC REFINING	6	CACCR
CANADA	POINT TUPPER, NS	NUSTAR ENERGY LP	6	CAPTN
CANADA	SAINT JOHN, NB	IRVING OIL (CANAPORT TERMINAL)	6	CASJI
INDONESIA	ANOA NATUNA	ANOA MARINE TERMINAL	6	IDANM
INDONESIA	ARDJUNA	ARDJUNA MARINE TERMINAL	6	IDAJM
INDONESIA	BALONGAN	BALONGAN TERMINAL	6	IDBGT
INDONESIA	BEKAPAI	BEKAPAI TERMINAL	6	IDBPM
INDONESIA	BELANAK	BELANAK MARINE TERMINAL	6	IDBKM
INDONESIA	BELIDA	BELIDA MARINE TERMINAL	6	IDBDM
INDONESIA	BLANG LANCANG	BLANG LANCANG TERMINAL	6	IDBLT
INDONESIA	BONTANG	SANTAN TERMINAL	6	IDBTS
INDONESIA	BUNYU	BUNYU TERMINAL	6	IDBUT
INDONESIA	CAMAR	CAMAR MARINE TERMINAL	6	IDCMM
INDONESIA	CINTA	CINTA MARINE TYERMINAL	6	IDCNM
INDONESIA	DUMAI	CHEVRON TERMINAL	6	IDDUC
INDONESIA	EXPAN	EXPAN TERMINAL	6	IDEXT
INDONESIA	KAKAP	KAKAP NATUNA MARINE TERMINAL	6	IDKKN
INDONESIA	KAKAP	KAKAP NATUNA MARINE TERMINAL	6	IDKKM
INDONESIA	KASIM (SORONG)	KASIM	6	IDKSK
INDONESIA	LALANG	LALANG	6	IDLGL
INDONESIA	LAWI LAWI	LAWI LAWI TERMINAL	6	IDLLT
INDONESIA	OYONG	OYONG TERMINAL	6	IDOYT
INDONESIA	JAMBI -PETROCHINA	PETROCHINA	6	IDPCP
INDONESIA	POLENG	POLENG TERMINAL	6	IDPLT
INDONESIA	SANTAN	SANTAN TERMINAL	6	IDSTT
INDONESIA	SENIPAH	SENIPAH TERMINAL	6	IDSPT
INDONESIA	TIACA	TIACA	6	IDTKT

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
INDONESIA	TUBAN	TUBAN MARINE TERMINAL	6	IDTBM
INDONESIA	UDANG NATUNA	UDANG MARINE TERMINAL	6	IDUDM
INDONESIA	WIDURI	WIDURI MARINE TERMINAL	6	IDWDW
KUWAIT	MINA AL ZOUR	SAUDI ARABIAN CHEVRON	6	KWMZS
QATAR	MESAIEED	QATAR PETROLEUM	6	QAMSQ
SAUDI ARABIA	RAS AL KHAFJI	KHAFJI JOINT OPERATIONS CO.	6	SARKJ
SAUDI ARABIA	RAS TANURA	SAUDI ARAMCO	6	SARTB
SAUDI ARABIA	YANBU	SAUDI ARAMCO	6	SAYBS
TUNISIA	DIDON OFF SHORE	DIDON	6	TNDDD
UNITED ARAB EMIRATES	FATEH	DUBAI PETROLEUM ESTABLISHMENT	6	AEFTD
UNITED ARAB EMIRATES	JEBEL DHANNA	ADCO	6	AEJDA
UNITED ARAB EMIRATES	ZIRKU ISLAND	ZADCO	6	AEZIZ
YEMEN	RAS ISA	SAFER	6	YERIS

TABLE 6A

ANGOLA	CABINDA	KUITO	6A	AOCBK
ANGOLA	CABINDA	MALONGO	6A	AOCBM
ANGOLA	CABINDA	MALONGO	6A	AOCBA
ANGOLA	SOYO	GREATER PLUTONIO	6A	AOSOA
ANGOLA	SOYO	KIZOMBA A	6A	AOSOK
ANGOLA	SOYO	KIZOMBA B	6A	AOSOB
ANGOLA	SOYO	KIZOMBA C	6A	AOSOC
ANGOLA	SOYO	SAXI BATUQUE	6A	AOSOS
ANGOLA	SOYO	XIKOMBA	6A	AOSOX
ARUBA	COASTAL	COASTAL	6A	AWCSC
ARUBA	SAN NICOLAS	COASTAL	6A	AWSNC
BAHAMAS	FREEPORT	SOUTH RIDING POINT	6A	BSFPS
CAMEROON	KRIBI	KOME KRIBI 1 MARINE	6A	CMKKK

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
CANADA	BURNABY, BC	KINDER MORGAN WESTRIDGE	6A	CABRK
CHILE	ARICA	TRANSREDES	6A	CLART
CHILE	CALETA CLARENCA	ENAP CLARENCA	6A	CLCLE
CHILE	SAN GREGORIO	ENAP GREGORIO	6A	CLGRE
CHILE	QUINTERO	ENAP ACONCAGUA MONOBOUY	6A	CLQUE
CHILE	SAN VICENTE	ENAP BIO BIO TERMINAL "B"	6A	CLSVE
CHINA	NINGBO	DAXIE SHIHUA	6A	CNNBD
CHINA	NINGBO	SUANSHAN	6A	CNNBS
CHINA	ZHOUSHAN	AOSHAN	6A	CNZSA
CHINA	ZHOUSHAN	CEZI	6A	CNZSC
COLOMBIA	COVEÑAS	ECOPETROL ODC	6A	COCOE
COLOMBIA	COVEÑAS	OCENSA	6A	COCOO
COLOMBIA	MAMONAL	ECOPETROL	6A	COMLE
COLOMBIA	TUMACO	ECOPETROL	6A	COTUE
CONGO	AZURITE	FDPSO AZURITE	6A	CGAZD
COTE D'IVOIRE	ABIDJAN	FPSO	6A	CIAJF
ECUADOR	ESMERALDAS	BALAO	6A	ECESB
ECUADOR	ESMERALDAS	OCP	6A	ECESO
GABON	ETAME	ETAME MARINE TERMINAL	6A	GAETE
GREECE	PRINOS OFF SHORE	PRINOS TERMINAL	6A	GRPRT
GUATEMALA	SANTO TOMAS DE CASTILLA	PIEDRAS NEGRAS	6A	GTSTP
EQUATORIAL GUINEA	BATA	CEIBA TERMINAL (FPSO OFFS)	6A	GQBTC
EQUATORIAL GUINEA	MALABO	PUNTA EUROPA	6A	GQMBP
EQUATORIAL GUINEA	MALABO	ZAFIRO TERMINAL (FPSO OFFS)	6A	GQMBZ
IRAN	ASALUYEH	NIOC	6A	IRASN
IRAN	BANDAR TAHERI	NIGC	6A	IRBTN
IRAN	KHARG ISLAND	NIOC	6A	IRKIA
IRAN	KHARG ISLAND	NIOC	6A	IRKIB

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
IRAN	KHARG ISLAND	NIOC	6A	IRKIC
IRAN	KHARG ISLAND	NIOC	6A	IRKID
IRAN	KHARG ISLAND	NIOC	6A	IRKIE
IRAN	KHARG ISLAND	NIOC	6A	IRKIF
IRAN	KHARG ISLAND	NIOC	6A	IRKIG
IRAN	KHARG ISLAND	NIOC	6A	IRKIH
IRAN	LAVAN ISLAND	IOOC	6A	IRLIA
IRAN	LAVAN ISLAND	IOOC	6A	IRLIB
IRAN	SIRRI ISLAND	IOOC	6A	IRSII
IRAN	SOROOSH	IOOC	6A	IRSRI
IRAQ	BASRAH OFF-SHORE	BASRAH OIL TERMINAL (ABOT)	6A	IQBSA
IRAQ	BASRAH OFF-SHORE	KHOR AL AMAYA OIL TERMINAL (KAAOT)	6A	IQBSK
KOREA	DAESAN	HYUNDAI OILBANK	6A	KRDSH
KOREA	DAESAN	KOREA NATIONAL OIL CORPORATION	6A	KRDSK
KOREA	INCHEON	SK ENEREGY INCHEON COMPLEX	6A	KRICS
KOREA	KEOJE ISLANDS	KOREA NATIONAL OIL CORPORATION	6A	KRKIK
KOREA	ONSAN	KOREA NATIONAL OIL CORPORATION	6A	KROSK
KOREA	ONSAN	S-OIL CORPORATION	6A	KROSS
KOREA	ULSAN	SK ENERGY CO LTD	6A	KRUSS
KOREA	YOSU	GS CALTEX CORPOATION	6A	KRYSG
KOREA	YOSU	KOREA NATIONAL OIL CORPORATION	6A	KRYSK
KUWAIT	MINA AL AHMADI	KUWAIT OIL COMPANY	6A	KWMAA
KUWAIT	MINA AL AHMADI	KUWAIT OIL COMPANY	6A	KWMAB
KUWAIT	MINA AL AHMADI	KUWAIT OIL COMPANY	6A	KWMAC
LIBYA	ALJURF	FARWA F.P.S.O.	6A	LYAJF
LIBYA	BOURI	BOURI F.S.O.	6A	LYBOB
LIBYA	ES SIDER	WAHA OIL COMPANY	6A	LYESW
LIBYA	MARSA EL BREGA	SIRTE OIL COMPANY	6A	LYMBS

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
LIBYA	MARSA EL BREGA	SIRTE OIL COMPANY (CONDENSATE)	6A	LYMBC
LIBYA	MARSA EL HARIGA	ARABIAN GULF OIL CO. (A.G.O.C.O.)	6A	LYMHA
LIBYA	MELLITAH	MELLITAH GAS	6A	LYMTA
LIBYA	MELLITAH	MELLITAH GAS (CONDENSATE)	6A	LYMTB
LIBYA	RAS LANUF	HAROUGE OIL OPERATIONS (AMNA)	6A	LYRLA
LIBYA	RAS LANUF	HAROUGE OIL OPERATIONS (MESLA)	6A	LYRLB
LIBYA	RAS LANUF	HAROUGE OIL OPERATIONS (SIRTICA)	6A	LYRLC
LIBYA	ZAWIA	AKAKUS OIL OPERATIONS	6A	LYZWA
LIBYA	ZUEITINA	ZUEITINA OIL COMPANY	6A	LYZTB
LIBYA	ZUEITINA	ZUEITINA OIL COMPANY	6A	LYZTC
MAURITANIA	OFF SHORE NOUAKCHOTT	CHINGUETTI	6A	MRNKC
MEXICO	CAYO ARCAS	CAYO ARCAS TERMINAL	6A	MXCAT
MEXICO	CAYO ARCAS	TAKUNTAH (FSO)	6A	MXCAF
MEXICO	CAYO ARCAS	YUUM KAK NAAB - FPSO	6A	MXCAY
MEXICO	CIUDAD MADERO (PUERTO MADERO)	PEMEX REFINERY	6A	MXCMP
MEXICO	COATZACOALCOS	PAJARITOS	6A	MXCZP
MEXICO	DOS BOCAS	DOS BOCAS	6A	MXDBT
MYANMAR	YETAGUN FSO	YETAGUN MARINE TERMINAL	6A	MMYTT
NETHERLANDS ANTILLES	BONAIR RINCON	BOPEC	6A	ANBRA
NETHERLANDS ANTILLES	CURACAO, BULLENBAY	BULLEN BAY	6A	ANBCA
NETHERLANDS ANTILLES	CURACAO, WILLEMSTAD	ISLA REFINERIA	6A	ANCWI
NETHERLANDS ANTILLES	ST EUSTATIUS	STATIA TERMINALS	6A	ANSTT
NIGERIA	ABO	ABO	6A	NGABA
NIGERIA	AGBAMI	AGBAMI	6A	NGAGA
NIGERIA	AMANDA	AMANDA	6A	NGAMA
NIGERIA	ANTAN	ANTAN	6A	NGANA
NIGERIA	BONGA	BONGA	6A	NGBGB
NIGERIA	BONNY	BONNY	6A	NGBNT

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
NIGERIA	BRASS	BRASS RIVER	6A	NGBRT
NIGERIA	EA FIELD	EA	6A	NGEAT
NIGERIA	ERHA	ERHA	6A	NGERT
NIGERIA	ESCRAVOS	ESCRAVOS	6A	NGEST
NIGERIA	FORCADOS	FORCADOS	6A	NGFOT
NIGERIA	IMA	IMA	6A	NGIMT
NIGERIA	ODUDU	ODUDU	6A	NGODT
NIGERIA	OKONO	OKONO	6A	NGOKT
NIGERIA	OKWORI	OKWORI	6A	NGOWT
NIGERIA	PENNINGTON	PENNINGTON	6A	NGPNT
NIGERIA	QUA IBOE	QUA IBOE	6A	NGQIT
NIGERIA	UKPOKITI	UKPOKITI	6A	NGUKT
NIGERIA	YOHO	YOHO	6A	NGYHT
PANAMA	CHIRIQUI GRANDE	PETROTERMINAL DEPANAMA	6A	PACGP
PANAMA	PUERTO ARMUELLES	PETROTERMINAL DEPANAMA	6A	PAPAP
PAPUA NEW GUINEA	KUMUL	KUMUL MARINE TERMINAL	6A	PGGPK
PERU	BAYOVAR	PETROPERU TERMINAL BAYOVAR	6A	PEBYP
PERU	CALLAO	REFINERIA CONCHÁN	6A	PECLA
PERU	CALLAO	REFINERIA LA PAMPILLA	6A	PECLB
PERU	TALARA	PETROPERU TERMINAL TALARA	6A	PETLP
SINGAPORE	JURONG (MOBIL)	EXXONMOBIL JURONG	6A	SGSGJ
SINGAPORE	SINGAPORE PORT	EXXONMOBIL OVL2	6A	SGSGO
SINGAPORE	PULAU AYER CHAWAN (ESSO)	EXXONMOBIL PAC	6A	SGSGP
SOUTH AFRICA	DURBAN	SAPREFI(SOUTH TANK FARM-STF)	6A	ZADBS
ST. LUCIA	CUL-DE-SAC BAY	HESS OIL ST. LUCIA LTD. (HOSLL)	6A	LCCSH
TAIWAN	KAOHSIUNG	KAOHSIUNG	6A	TWKST
TAIWAN	MAILIAO	MAILIAO	6A	TWMLT
TAIWAN	SHA-LUNG	SHA-LUNG	6A	TWSLT

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
THAILAND	ARTHIT	BONGKOT TERMINAL	6A	THARB
THAILAND	BENCHAMAS	FSO BENCHAMAS EXPLORER	6A	THBCF
THAILAND	BONGKOT	BONGKOT TERMINAL	6A	THBGT
THAILAND	ERAWAN	ERAWAN GASFIELD	6A	THEWG
THAILAND	JASMINE	JASMINE VENTURE MV7	6A	THJSV
THAILAND	ERAWAN	ERAWAN GASFIELD	6A	THPLE
THAILAND	PATTANI	PLFSO "PATTANI SPIRIT"	6A	THPNF
THAILAND	SRIRACHA	PTT SEA BERTH	6A	THPTS
THAILAND	SRIRACHA	ESSO MBM	6A	THSRE
THAILAND	TANTAWAN	FSO TANTAWAN EXPLORER	6A	THTF
TRINIDAD	GALEOTA POINT	BHP BILITON	6A	TTGPH
TRINIDAD	GALEOTA POINT	BP TRINIDAD AND TOBAGO LLC	6A	TTGPB
UNITED STATES	ALLIANCE, LA	CONOCOPHILLIPS	6A	USALC
UNITED STATES	ANACORTES, WA	SHELL OIL PRODUCTS US	6A	USANS
UNITED STATES	ANACORTES, WA	TESORO	6A	USANT
UNITED STATES	BATON ROUGE, LA	EXXONMOBIL	6A	USBRE
UNITED STATES	BATON ROUGE, LA	EXXONMOBIL REFINERY	6A	USBRR
UNITED STATES	BAYTOWN, TX	BAYTOWN REFINERY (EXXONMOBIL)	6A	USBYR
UNITED STATES	BEAUMONT, TX	EXXONMOBIL	6A	USBME
UNITED STATES	BEAUMONT, TX	OTTI	6A	USBMO
UNITED STATES	BENICIA, CA	VALERO	6A	USBNV
UNITED STATES	BLAINE, WA	BP	6A	USBLB
UNITED STATES	CARSON, CA	BP OIL	6A	USCSB
UNITED STATES	CARSON, CA	KINDER MORGAN	6A	USCSK
UNITED STATES	CHALMETTE, LA	CHALMETTE REFINING	6A	USCMR
UNITED STATES	CHERRY POINT, WA	BP OIL	6A	USCHB
UNITED STATES	CONVENT, LA	MOTIVA	6A	USCNM
UNITED STATES	CORPUS CHRISTI, TX	CITGO	6A	USCCC

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
UNITED STATES	CORPUS CHRISTI, TX	FLINT HILLS EAST	6A	USCCF
UNITED STATES	CORPUS CHRISTI, TX	FLINT HILLS INGLESIDE	6A	USCCI
UNITED STATES	CORPUS CHRISTI, TX	FLINT HILLS WEST	6A	USCCE
UNITED STATES	CORPUS CHRISTI, TX	MAGELLAN	6A	USCCM
UNITED STATES	CORPUS CHRISTI, TX	NUSTAR NORTH BEACH TERMINAL	6A	USCCN
UNITED STATES	CORPUS CHRISTI, TX	TRIGEANT	6A	USCCT
UNITED STATES	CORPUS CHRISTI, TX	VALERO AVERY POINT	6A	USCCV
UNITED STATES	CORPUS CHRISTI, TX	VALERO TULE LAKE	6A	USCCL
UNITED STATES	DEER PARK, TX	SHELL REFINERY	6A	USDPS
UNITED STATES	DELAWARE CITY, DE	MOTIVA	6A	USDCM
UNITED STATES	EL SEGUNDO, CA	CHEVRON TEXACO	6A	USESC
UNITED STATES	FERNDALE, WA	CONOCOPHILLIPS	6A	USFDC
UNITED STATES	FORT MIFFLIN, PA	SUN	6A	USFMS
UNITED STATES	FREEPORT, TX	CONOCOPHILLIPS	6A	USFPC
UNITED STATES	FREEPORT, TX	TEPPCO SEAWAY	6A	USFPT
UNITED STATES	GARYVILLE, LA	MARATHON	6A	USGVM
UNITED STATES	HOG ISLAND, PA	SUN OIL	6A	USHIS
UNITED STATES	HOUSTON, TX	HOUSTON FUEL OIL	6A	USHTF
UNITED STATES	HOUSTON, TX	HOUSTON REFINING	6A	USHTR
UNITED STATES	HOUSTON, TX	MAGELLAN MIDSTREAM	6A	USHTM
UNITED STATES	HOUSTON, TX	OIL TANKING	6A	USHTO
UNITED STATES	HOUSTON, TX	PASADENA REFINING	6A	USHTP
UNITED STATES	HOUSTON, TX	VALERO	6A	USHTV
UNITED STATES	KROTZ SPRINGS, LA	VALERO	6A	USKSV
UNITED STATES	LAKE CHARLES, LA	CITGO	6A	USLCC
UNITED STATES	LAKE CHARLES, LA	CONOCOPHILLIPS	6A	USLCP
UNITED STATES	LINDEN, NJ	CONOCOPHILLIPS - BAYWAY REFINERY	6A	USLDC
UNITED STATES	LONG BEACH, CA	SHELL	6A	USLBS

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
UNITED STATES	LOS ANGELES, CA	BP	6A	USLAB
UNITED STATES	LOS ANGELES, CA	CHEVRONTEXACO	6A	USLAT
UNITED STATES	LOS ANGELES, CA	CONOCOPHILLIPS	6A	USLAC
UNITED STATES	LOS ANGELES, CA	EXXONMOBIL	6A	USLAE
UNITED STATES	LOS ANGELES, CA	KINDER MORGAN	6A	USLAK
UNITED STATES	LOS ANGELES, CA	PACIFIC TERMINALS	6A	USLAP
UNITED STATES	LOS ANGELES, CA	SHELL	6A	USLAS
UNITED STATES	LOS ANGELES, CA	VALERO	6A	USLAV
UNITED STATES	MANTUA, NJ	CITGO	6A	USMTC
UNITED STATES	MARCUS HOOK, PA	SUN	6A	USMHC
UNITED STATES	MARTINEZ, CA	ST SERVICES	6A	USMZS
UNITED STATES	MARTINEZ, CA	TESORO	6A	USMZT
UNITED STATES	MERAUX, LA	MURPHY, LA	6A	USMXT
UNITED STATES	MOBILE, AL	ALABAMA BULK	6A	USMOA
UNITED STATES	MOBILE, AL	EOTT	6A	USMOE
UNITED STATES	MOBILE, AL	SHELL CHEMICAL	6A	USMOS
UNITED STATES	MOBILE, AL	TRIGENT	6A	USMOT
UNITED STATES	NEDERLAND, TX	CHEVRON TERMINAL	6A	USNLC
UNITED STATES	NEDERLAND, TX	SUN	6A	USNLS
UNITED STATES	NORCO, LA	MOTIVA	6A	USNCM
UNITED STATES	NORCO, LA	VALERO	6A	USNCV
UNITED STATES	OFF SHORE, LA	LOOP	6A	USOLL
UNITED STATES	PASCAGOULA, MS	CHEVRON	6A	USPSC
UNITED STATES	PAULSBORO, NJ	VALERO	6A	USPBV
UNITED STATES	PERTH AMBOY, NJ	CHEVRON TEXACO	6A	USPEC
UNITED STATES	PORT ARTHUR, TX	TOTAL	6A	USPAT
UNITED STATES	PORT ARTHUR, TX	VALERO	6A	USPAV
UNITED STATES	PORT NECHES, TX	MOTIVA	6A	USPNM

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
UNITED STATES	PORT READING, NJ	HESS CORPORATION	6A	USPRH
UNITED STATES	PORTLAND, ME	PORTLAND PIPELINE	6A	USPLP
UNITED STATES	RICHMOND, CA	CHEVRON TEXACO REFINERY	6A	USRMC
UNITED STATES	RODEO, CA	CONOCOPHILLIPS	6A	USRDC
UNITED STATES	SAN FRANCISCO, CA	SHELL	6A	USSFS
UNITED STATES	SANTA FE SPRING, CA	GOLDEN WEST	6A	USSTG
UNITED STATES	SANTA FE SPRING, CA	POWERINE OIL	6A	USSTP
UNITED STATES	SAVANNAH, GA	NUSTAR ENERGY REFINERY	6A	USSVN
UNITED STATES	ST ROSE, LA	INTER'L MATEX TANK	6A	USSRI
UNITED STATES	ST. JAMES, LA	CAPLINE	6A	USSJC
UNITED STATES	ST. JAMES, LA	NUSTAR	6A	USSJN
UNITED STATES	ST. JAMES, LA	SUGARLAND	6A	USSJS
UNITED STATES	TEXAS CITY, TX	BP	6A	USTCB
UNITED STATES	TEXAS CITY, TX	MARATHON (TEPPCO & BP DOCKS)	6A	USTCM
UNITED STATES	TEXAS CITY, TX	TEPPCO	6A	USTCT
UNITED STATES	TEXAS CITY, TX	VALERO (TEPPCO DOCKS & BP DOCKS)	6A	USTCV
UNITED STATES	TRAINER, PA	CONOCOPHILLIPS	6A	USTRC
UNITED STATES	VALDEZ, AK	ALYESKA MARINE	6A	USVZA
UNITED STATES	WESTVILLE, NJ	COASTAL	6A	USWVC
UNITED STATES	WILMINGTON, CA	FLETCHER OIL	6A	USWNF
UNITED STATES	WILMINGTON, CA	KINDER MORGAN	6A	USWNK
UNITED STATES	WOOD RIVER, IL	MARATHON	6A	USWRM
UNITED STATES	YORKTOWN	WESTERN REFINERY YORKTOWN	6A	USYTW
US VIRGIN ISLANDS	LIMETREE BAY, ST. CROIX	HOVENSA LLC	6A	VILTH
VENEZUELA	BAJO GRANDE	PDVSA	6A	VEBGP
VENEZUELA	EL TABLAZO	PDVSA	6A	VEETP
VENEZUELA	JOSE	PDVSA	6A	VEJOE
VENEZUELA	JOSE	PETROZUATA	6A	VEJOP

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
VENEZUELA	JOSE	TAEJ	6A	VEJON
VENEZUELA	JOSE	TAEJ	6A	VEJOS
VENEZUELA	JOSE	TOJ	6A	VEJOT
VENEZUELA	LA SALINA	PDVSA	6A	VELSP
VENEZUELA	PUNTA CAMACHO	PRALCA	6A	VEPCP
VENEZUELA	PUERTO LA CRUZ	GUARAGUAO	6A	VEPLG
VENEZUELA	PUERTO LA CRUZ	PDVSA	6A	VEPLP
VENEZUELA	PUERTO MIRANDA	PDVSA	6A	VEPMP
YEMEN	ASH SHIHR	ASH SHIHR	6A	YEASA

TABLE 24

OMAN	MINA AL FAHAL	PETROLEUM DEVELOPMENT OMAN	24	OMMFP
SAUDI ARABIA	JU'AYMAH	SAUDI ARAMCO	24	SAJUS
SAUDI ARABIA	RAS TANURA	SAUDI ARAMCO	24	SARTA
SYRIA	BANIAS	SCOT BANIAS TERMINAL	24	SYBNS
UNITED ARAB EMIRATES	DAS ISLAND	ADMA OPCO	24	AEDIA

TABLE 24A

BANGLADESH	CHITTAGONG	EASTERN REFINERY LTD.	24A	BDCHE
EGYPT	AIN SUKHNA	AIN SUKHNA	24A	EGASA
EGYPT	MERSA EL HAMRA	EL HAMRA	24A	EGEHH
EGYPT	RAS SHUKHEIR	RAS SHUKHEIR	24A	EGRSS
EGYPT	SIDI KERIR	SIDI KERIR	24A	EGSKS
EGYPT	ZAAFARANA	ZAFCO	24A	EGZFZ
PAKISTAN	KARACHI	NATIONAL REFINERY LTD.	24A	PKKRN
PAKISTAN	KARACHI	PAK ARAB REFINERY LTD.	24A	PKKRA
PAKISTAN	KARACHI	PAK ARAB REFINERY LTD.	24A	PKKRB
PAKISTAN	KARACHI	PAK ARAB REFINERY LTD.	24A	PKKRC

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
PAKISTAN	KARACHI	PAKISTAN REFINERY LTD.	24A	PKKRD
PAKISTAN	PORT QASIM	BOSICOR PAKISTAN LTD.	24A	PKPQB
QATAR	RAS LAFFAN	RAS GAS	24A	QARLA
QATAR	RAS LAFFAN	RAS GAS	24A	QARLB
QATAR	RAS LAFFAN	RAS GAS	24A	QARLC
QATAR	RAS LAFFAN	RAS GAS	24A	QARLD
TURKEY	CEYHAN	BOTAS TERMINAL	24A	TRCYB

TABLE 54

ALGERIA	ARZEW NEW PORT	SONATRACH RTO	54	DZAZB
ALGERIA	ARZEW NEW PORT	SONATRACH RTO	54	DZAZC
ALGERIA	ARZEW NEW PORT	SONATRACH RTO	54	DZAZD
ALGERIA	BEJAIA	SONATRACH RTE	54	DZBJA
ALGERIA	BEJAIA	SONATRACH RTE	54	DZBJB
ALGERIA	BEJAIA	SONATRACH RTE	54	DZBJC
ALGERIA	SKIKDA NEW PORT	SONATRACH RTE	54	DZSKA
ALGERIA	SKIKDA NEW PORT	SONATRACH RTE	54	DZSKB
ALGERIA	SKIKDA NEW PORT	SONATRACH RTE	54	DZSKC
ARGENTINA	BAHIA BLANCA	OIL TANKING	54	ARBHO
ARGENTINA	CALETA CORDOVA	TERMAP'S	54	ARCCB
ARGENTINA	CALETA OLIVIA	TERMAP'S	54	ARCOT
ARGENTINA	PUNTA LOYOLA	PUNTA LOYOLA	54	ARPLL
ARGENTINA	TIERRA DEL FUEGO	CRUZ DEL SUR	54	ARTFC
ARGENTINA	TIERRA DEL FUEGO	TOTAL AUSTRAL	54	ARTFT
CANADA	ARNOLD'S COVE, NF	IMTT	54	CAACI
CANADA	DARTMOUTH, NS	IMPERIAL OIL	54	CADMI
GEORGIA	BATUMI	BATUMI OIL TERMINAL	54	GEBTT
GEORGIA	SUPSA	SUPSA TERMINAL	54	GESPT

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
LATVIA	VENTSPILS	VENTSPILS NAFTA	54	LVPVP
MALAYSIA	ABU	ABU MARINE TERMINAL	54	MYABM
MALAYSIA	ANGSI	ANGSI MARINE TERMINAL	54	MYANM
MALAYSIA	BINTULU	BINTULU CRUDE OIL TERMNAL	54	MYBTT
MALAYSIA	BINTULU	BINTULU CRUDE OIL TERMNAL	54	MYBTC
MALAYSIA	BINTULU	KIDURONG MARINE TERMINAL	54	MYBTK
MALAYSIA	BUNGA RAYA	BUNGA RAYA MARINE TERMINAL	54	MYBRB
MALAYSIA	CENDOR	CENDOR MARINE TERMINAL	54	MYCMM
MALAYSIA	DULANG	DULANG MARINE TERMINAL	54	MYDMM
MALAYSIA	KERTEH	TERENGGANU CONDENSATE TERMINAL	54	MYKTA
MALAYSIA	KERTEH	TERENGGANU CRUDE OIL TERMINAL	54	MYKTB
MALAYSIA	LABUAN	KIKEH MARINE TERMINAL	54	MYLBK
MALAYSIA	LABUAN	LABUAN CRUDE OIL TERMINAL	54	MYLBL
MALAYSIA	MASA	MASA MARINE TERMINAL	54	MYMMM
MALAYSIA	MIRI	MIRI CRUDE OIL TERMINAL	54	MYMRM
MALAYSIA	PENARA	PENARA MARINE TERMINAL	54	MYPMP
MALAYSIA	PUTERI CAKERAWALA	PUTERI CAKERAWALA MARINE TERMINAL	54	MYPCP
SENEGAL	DAKAR	SAR	54	SNDKS
SYRIA	TARTOUS	SCOT TARTOUS TERMINAL	54	SYTTS
TUNISIA	ASHTART OFF SHORE	IFRIKIA II	54	TNASI
TUNISIA	BIZERTE	STIR	54	TNBZS
TUNISIA	LA SKHIRA	TRAPSA	54	TNLST
TUNISIA	LA SKHIRA	TRAPSA	54	TNLSA
TUNISIA	ZARZIS	MARETAP	54	TNZRM
UZBEKISTAN	BUKHARA	BUKHARA OIL REFINERY	54	UZBKR
UZBEKISTAN	FERGANA	FERGANA OIL REFINERY	54	UZFGR

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
TABLE 54A				
ANGOLA	SOYO	DALIA CRUDE OIL	54A	AOSOD
ANGOLA	SOYO	GIRASSOL FPSO	54A	AOSOG
ANGOLA	SOYO	PALANCA	54A	AOSOP
ARGENTINA	CALETA CORDOBA	TERMAP'S	54A	ARCCA
ARGENTINA	CALETA OLIVIA	TERMAP'S	54A	ARCOA
ARGENTINA	PUERTO ROSALES	OIL TANKING EVITEM	54A	ARPRO
ARGENTINA	PUNTA LOYOLA	PETROBRAS	54A	ARPLP
ARGENTINA	RIO CULLEN	TOTAL AUSTRAL	54A	ARRCT
ARGENTINA	SAN SEBASTIAN	CRUZ DEL SUR	54A	ARSSC
AUSTRALIA	BARROW ISLAND	BARROW ISLAND	54A	AUBIB
AUSTRALIA	BAYU UN DAN	FSO LIBERDADE, BAYU UN DAN	54A	AUBUF
AUSTRALIA	COOPER BASIN	PORT BONYTHON	54A	AUCBP
AUSTRALIA	COOPER BASIN CONDENSATE	PORT BONYTHON	54A	AUCBB
AUSTRALIA	COSSACK	FPSO	54A	AUCKF
AUSTRALIA	JABIRU	FPSO	54A	AUJBF
AUSTRALIA	LAMINARIA	NORTHERN ENDEAVOUR	54A	AULMN
AUSTRALIA	MUTINEER - EXETER	MODEC VENTURE 11	54A	AUMEM
AUSTRALIA	NW-SHELF CONDENSATE	WITNELL BAY, DAMPIER	54A	AUNSW
AUSTRALIA	DAMPIER - STAG	FPSO DAMPIER SPIRIT	54A	AUSTD
AUSTRALIA	THEVENARD	SALADIN MARINE TERMINAL	54A	AUTHS
AUSTRALIA	VARANUS ISLAND	VARANUS ISLAND	54A	AUVIA
AUSTRALIA	VARANUS ISLAND	VARANUS ISLAND	54A	AUVIB
AUSTRALIA	WANDOO	WANDOO MARINE TERMINAL	54A	AUWDM
AUSTRALIA	WOOLLYBUTT	FPSO FOUR VANGUARD	54A	AUWLF
AUSTRALIA	WORRIOR (COOPER BASIN)	PORT BONYTHON	54A	AUWRB
AZERBAIJAN	ABSHERON	CAUCASTRANSERV	54A	AZABC
AZERBAIJAN	BAKU	ASTRANSRAIL	54A	AZBKA

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
AZERBAIJAN	SANGACHAL	AZERTRANS	54A	AZSGA
BRUNEI	SERIA	SERIA CRUDE OIL TERMINAL	54A	BNSRC
BULGARIA	BOURGAS	ROSENETZ OIL TERMINAL	54A	BGBGR
CAMEROON	CAPE LIMBOH	SONARA REFINERY	54A	CMCLS
CAMEROON	EBOME MARINE	EBOME MARINE	54A	CMEME
CAMEROON	KOLE	KOLE MARINE	54A	CMKLM
CAMEROON	MOUDI	MOUDI MARINE	54A	CMMUM
CHINA	DALIAN	DALIAN XINGANG	54A	CNDLD
CHINA	HAIKOU	HAINAN REFINERY	54A	CNHKH
CHINA	HUIZHOU	GPC/SINOPEC & MBZ/CNOOC	54A	CNHUG
CHINA	MAOMING	MAOMING REFINERY	54A	CNMGR
CHINA	QINGDAO	SINOPEC	54A	CNQDS
CHINA	QINGHUANGDAO	CAOFEIDIAN	54A	CNQGC
CHINA	QUANZHOU	FUJIAN REFINERY	54A	CNQZF
CHINA	SHANGHAI	SHANGHAI	54A	CNSHS
CHINA	SHENZHEN	SHENZHEN	54A	CNSZS
CHINA	TIANJIN	TIANJIN	54A	CNTIT
CHINA	ZHANJIANG PORT	ZHANJIANG	54A	CNZGZ
CONGO	DJENO	DJENO SBM	54A	CGDJS
COTE D'IVOIRE	ABIDJAN	SIR II	54A	CIAJS
CROATIA	OMISALJ	JADRANSKI NAFTAVOD	54A	HROJJ
DOMINICAN REPUBLIC	PALENQUE	CONV.BUOY MOORING (CBM)	54A	DOPPC
EGYPT	EAST ZEIT BAY	EAST ZEIT BAY	54A	EGEZB
EGYPT	GEISUM	GEISUM	54A	EGGSG
EGYPT	RAS BUDRAN	RAS BUDRAN	54A	EGRBB
EGYPT	RAS GHARIB	RAS GHARIB	54A	EGRGG
EGYPT	WADI FERIAN	WADI FERIAN	54A	EGWFF
EGYPT	ZEIT BAY	ZEIT BAY	54A	EGZBZ

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
FRANCE	DONGES	TOTAL RAFFINERY OF DONGES	54A	FRDGT
FRANCE	DUNKIRK (DUNKERQUE)	TOTAL RAFFINERY OF FLANDRES	54A	FRDKT
FRANCE	FOS-SUR-MER	ESSO	54A	FRFSE
FRANCE	FOS-SUR-MER	GIE CRAU	54A	FRFSG
FRANCE	FOS-SUR-MER	SOUTH EUROPEAN PIPELINE	54A	FRFSS
FRANCE	LE HAVRE	COMPANIE INDUSTRIELLE MARITIME	54A	FRLHC
FRANCE	LE HAVRE	COMPANIE INDUSTRIELLE MARITIME	54A	FRLHA
GABON	GAMBA	GAMBA TERMINAL	54A	GAGMG
GABON	LIBREVILLE	REMOUE TERMINAL	54A	GALVP
GABON	LUCINA	LUCINA TERMINAL	54A	GALUT
GABON	OGUENDJO	OGUENDJO TERMINAL	54A	GAOGT
GABON	PORT-GENTIL	CAP LOPEZ	54A	GAPGC
GERMANY	BRUNSBÜTTEL	SHELL REFINERY	54A	DEBBS
GERMANY	BRUNSBÜTTEL	TOTAL REFINERY	54A	DEBBT
GERMANY	HAMBURG	HOLBORN REFINERY	54A	DEHGR
GERMANY	HAMBURG	SHELL REFINERY	54A	DEHGS
GERMANY	ROSTOCK	GOR	54A	DEMSG
GERMANY	WILHELMSHAVEN	NOW TERMINAL	54A	DEWHT
GERMANY	WILHELMSHAVEN	WRG REFINERY	54A	DEWHR
GHANA	PORT OF SALTPOND - OFFSHORE	SALTPOND TERMINAL	54A	GHOSS
GREECE	AGIOI THEODOROI	MOTOR OIL REFINERY	54A	GRATM
GREECE	ASPROPYRGOS	HELENIC PETROLEUM ASPROPYRGOS REFINERY	54A	GRASH
GREECE	ELEUSIS	PETROLA HELLAS REFINERY	54A	GREFP
GREECE	PACHI	HELLENIC PETROLEUM ASPROP.REFINERY - MEGARA	54A	GRPCH
GREECE	THESSALONIKI OFF S	EKO THESSALONIKI REFINERY	54A	GRTHE
INDIA	CHENNAI	IOCL/CPCL	54A	INCHI
INDIA	COCHIN (KOCHI)	KRL/BPCL	54A	INCOK
INDIA	KG D6	FPSO DHIRUBHAI	54A	INKGF

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
INDIA	MANGALORE	MRPL	54A	INMGH
INDIA	MUMBAI	HPCL/BPCL	54A	INMUH
INDIA	MUMBAI	ONGC	54A	INMUO
INDIA	RAVVA OILFIELD S.YANAM	CAIRN ENERGY	54A	INRWC
INDIA	SIKKA	RELIANCE	54A	INSKR
INDIA	VISAKHAPATNAM (VISAKH)	HPCL	54A	INVSH
IRELAND	BANTRY BAY	CONOCOPHILLIPS BANTRY TERMINALS	54A	IEBBC
IRELAND	WHITEGATE	CONOCOPHILLIPS WHITEGATE REFINERY	54A	IEWGC
ITALY	AUGUSTA	ESSO	54A	ITAGE
ITALY	FALCONARA MARITTIMA	API	54A	ITFAA
ITALY	FIUMICINO	ERG-TOTAL	54A	ITFCE
ITALY	GELA	ENI	54A	ITGLE
ITALY	GENOA	PORTO PETROLI	54A	ITGNP
ITALY	LIVORNO	ENI	54A	ITLVE
ITALY	MILAZZO	R.A.M.	54A	ITMZR
ITALY	PORTO MARGHERA	ENI - SAN LEONARDO	54A	ITVNE
ITALY	PRIOLO GARGALLO	ISAB NORTH SITE (MELILLI OIL TERMINAL)	54A	ITPRI
ITALY	SANTA PANAGIA	ISAB SOUTH SITE	54A	ITSPI
ITALY	SARROCH	SARAS	54A	ITSRS
ITALY	TARANTO	ENI REFINERY	54A	ITTRE
ITALY	TERMOLI	TOTAL OFF SHORE PLANT	54A	ITTMT
ITALY	TRIESTE	S.I.O.T.	54A	ITTSS
ITALY	VADO LIGURE	SARPOM	54A	ITVLS
JAPAN	CHIBA	COSMO OIL CHIBA	54A	JPCBC
JAPAN	CHIBA	FUJI OIL SODEGAURA	54A	JPCBF
JAPAN	CHIBA	IDEMITSU CHIBA	54A	JPCBI
JAPAN	CHIBA	KYOKUTO OIL	54A	JPCBK
JAPAN	CHITA	IDEMITSU AICHI	54A	JPCTA

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
JAPAN	IWAKUNI	NIPPON OIL MARIFU	54A	JPIWN
JAPAN	KANOKAWA	KANOKAWA TERMINAL	54A	JPKKT
JAPAN	KASHIMA	KASHIMA OIL	54A	JPKMO
JAPAN	KAWASAKI	TOA OIL KEIHIN	54A	JPKWT
JAPAN	KAWASAKI	TONENGENERAL KAWASAKI	54A	JPKWK
JAPAN	KIIRE	NIPPON OIL STORAGE KIIRE	54A	JPKRN
JAPAN	KIKUMA	TAIYO OIL SHIKOKU	54A	JPKIT
JAPAN	KIN-NAKAGUSUKU	NANSEI SEKIYU	54A	JPKNN
JAPAN	MIZUSHIMA	JAPAN-ENERGY MIZUSHIMA	54A	JPMZJ
JAPAN	MIZUSHIMA	NIPPON OIL MIZUSHIMA	54A	JPMZN
JAPAN	MURORAN	NIPPON OIL MURORAN	54A	JPMUN
JAPAN	OITA	NIPPON OIL OITA	54A	JPOTN
JAPAN	ONAHAMA	ONAHAMA OIL	54A	JPOHO
JAPAN	OWASE	TOHO OIL	54A	JPOWT
JAPAN	SAKAI	COSMO OIL SAKAI	54A	JPSKC
JAPAN	SAKAI	NIPPON OIL OSAKA	54A	JPSKN
JAPAN	SAKAI	TONENGENERAL SAKAI	54A	JPSKT
JAPAN	SAKAIDE	COSMO OIL SAKAIDE	54A	JPSDC
JAPAN	SENDAI	NIPPON OIL SENDAI	54A	JPSNN
JAPAN	SHIMOTSU	TONENGENERAL WAKAYAMA	54A	JPSMT
JAPAN	TOKUYAMA	IDEMITSU TOKUYAM	54A	JPTMI
JAPAN	TOMAKOMAI	IDEMITSU HOKKAIDO	54A	JPTKI
JAPAN	TOYAMA	NIHONNKAI OIL TOYAMA	54A	JPTYN
JAPAN	UBE	SEIBU OIL	54A	JPUBS
JAPAN	YOKKAICHI	COSMO OIL YOKKAICHI	54A	JPYKC
JAPAN	YOKKAICHI	SHOWA-YOKKAICHI	54A	JPYKS
JAPAN	YOKOHAMA	NIPPON OIL YOKOHAMA	54A	JPYHN
MOROCCO	MOHAMMEDIA	MOHAMMEDIA TERMINAL	54A	MAMHT

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
NETHERLANDS	FLUSHING	TOTAL REFINERY	54A	NLFST
NETHERLANDS	ROTTERDAM / EUROPOORT	BP REFINERY EUROPOORT	54A	NLRDA
NETHERLANDS	ROTTERDAM / EUROPOORT	BP REFINERY EUROPOORT	54A	NLRDB
NETHERLANDS	ROTTERDAM / EUROPOORT	KUWAIT PETROLEUM EUROPOORT	54A	NLRDK
NETHERLANDS	ROTTERDAM / EUROPOORT	MAASVLAKTE OLIE TERMINAL	54A	NLRDM
NETHERLANDS	ROTTERDAM / EUROPOORT	MAATSCHAP EUROPOORT TERMINAL	54A	NLRDE
NETHERLANDS	ROTTERDAM / EUROPOORT	SHELL NEDERLAND RAFFINADERIJ EUROPOORT	54A	NLRDS
NETHERLANDS	ROTTERDAM / EUROPOORT	TEAM TERMINAL EUROPOORT	54A	NLRDT
NETHERLANDS	ROTTERDAM / EUROPOORT	VOPAK TERMINAL EUROPOORT	54A	NLRDV
NEW ZEALAND	MARSDEN POINT	NEW ZEALAND REFINING CO. (NZRC)	54A	NZMPN
NEW ZEALAND	NEW PLYMOUTH	NEW PLYMOUTH	54A	NZNPT
NEW ZEALAND	NEW PLYMOUTH	NEWTON KING	54A	NZNPK
NEW ZEALAND	WHANGAREI	NZ REFINING COMPANY	54A	NZWGR
NORWAY	BALDER	ESSO	54A	NOBLE
NORWAY	BERGEN	STATOIL MONGSTAD	54A	NOBNS
NORWAY	JOTUN	ESSO	54A	NOJOE
NORWAY	MONGSTAD	STATOILHYDRO MONGSTAD	54A	NOMGS
NORWAY	STURE	NORSK HYDRO	54A	NOSTN
NORWAY	STURE	STATOILHYDRO STURE	54A	NOSTS
NORWAY	TONSBERG	SLAGENTANGEN	54A	NOTBS
PHILIPPINES	BATAAN	PETRON BATAAN REFINERY	54A	PHBTP
PHILIPPINES	BATANGAS	SHELL TABANGAO REFINERY	54A	PHBGS
PHILIPPINES	PALAWAN	FPSO RUBICON INTREPID	54A	PHPWA
PHILIPPINES	PALAWAN	MALAMPAYA PLATFORM	54A	PHPWB
PHILIPPINES	PALAWAN	MATINLOC PLATFORM	54A	PHPWC
PHILIPPINES	PALAWAN	NIDO PLATFORM	54A	PHPWD
POLAND	GDANSK	PORT POLNOCNY	54A	PLGDP
PORTUGAL	LEIXÕES	PETROGAL	54A	PTLXP

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
PORTUGAL	SINES	PETROGAL	54A	PTSSP
PORTUGAL	SINES	PETROGAL	54A	PTSSL
QATAR	AL SHAHEEN	MAERSK OIL QATAR - FSO	54A	QAASM
QATAR	HALUL ISLAND	QATAR PETROLEUM	54A	QAHIQ
ROMANIA	CONSTANTZA	OIL TERMINAL	54A	ROCSO
RUSSIA	DE-KASTRI	DE-KASTRI TERMINAL	54A	RUDKT
RUSSIA	DE-KASTRI	DE-KASTRI TERMINAL	54A	RUDKD
RUSSIA	DE-KASTRI	DE-KASTRI TERMINAL	54A	RUDKK
RUSSIA	KROTOVKA	KROTOVKA ST.	54A	RUKTK
RUSSIA	NOVOROSSIYSK	CPC-R TERMINAL	54A	RUNOB
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	54A	RUNOO
RUSSIA	NOVOSERGIEVSKAYA	NOVOSERGIEVSKAYA ST.	54A	RUNSN
RUSSIA	OKRUZHNOE ARIA - OKHOTSK	OKRUZHNOE - SAKHALIN	54A	RUOAA
RUSSIA	OKRUZHNOE ARIA	OKRUZHNOE - SAKHALIN	54A	RUOAB
RUSSIA	VITYAZ ARIA	VITYAZ	54A	RUVAA
RUSSIA	VITYAZ ARIA	VITYAZ	54A	RUVAB
SINGAPORE	PULAU BUKOM	SHELL BUKOM	54A	SGSGB
SINGAPORE	PULAU BUKOM	SHELL BUKOM SBM	54A	SGSGS
SINGAPORE	JURONG ISLAND (SRC)	SRC JURONG ISLAND	54A	SGSGI
SINGAPORE	SINGAPORE PORT	SRC OVL1	54A	SGSGR
SPAIN	ALGECIRAS	CEPSA	54A	ESAGC
SPAIN	BILBAO	PETRONOR (REPSOL)	54A	ESBIP
SPAIN	CARTAGENA	REPSOL	54A	ESCGR
SPAIN	CASTELLON	BP OIL	54A	ESCSB
SPAIN	LA CORUÑA	REPSOL	54A	ESLCR
SPAIN	HUELVA	CEPSA	54A	ESHVC
SPAIN	PUERTOS DE TENERIFE (SANTA CRUZ DE TENERIFE)	CEPSA	54A	ESSCC
SPAIN	TARRAGONA	ASESA	54A	ESTGA

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
SPAIN	TARRAGONA	REPSOL	54A	ESTGR
SRI LANKA	COLOMBO	CEYPETCO ORUGODAWATTA	54A	SLCLC
SWEDEN	BROFJORDEN	SCANRAFF	54A	SEBJS
SWEDEN	GOTHENBURG	PREEM	54A	SEGTP
SWEDEN	GOTHENBURG	SHELL	54A	SEGTS
TANZANIA	DAR ES SALAAM	TAZAMA	54A	TZDST
THAILAND	MAPTAPHUT	PTT AR BRANCH 2 (REFINERY)	54A	THMTP
THAILAND	MAPTAPHUT	STAR PETROLEUM	54A	THMTS
THAILAND	RAYONG	IRPC	54A	THRYI
THAILAND	SRIRACHA	THAI OIL SBM 1-2 &CBM	54A	THSRT
THAILAND	KOH SI CHANG TPP	TPP	54A	THTPP
TUNISIA	LOUDIA OFF SHORE	LENDEN	54A	TNOUL
TURKEY	ALIAGA-IZMIR	TUPRAS	54A	TRAIT
TURKEY	CEYHAN	CEYHAN MARINE TERMINAL (BTC PIPELINE)	54A	TRCYM
TURKEY	TUTUNCIFILIK-IZMIT	TUPRAS	54A	TRTUT
UNITED KINGDOM	OFF SHORE	ALBA FSU	54A	GBALF
UNITED KINGDOM	OFF SHORE	BERYL	54A	GBBLO
UNITED KINGDOM	CORYTON	PETROPLUS	54A	GBCTP
UNITED KINGDOM	FAWLEY	ESSO FAWLEY	54A	GBFWE
UNITED KINGDOM	FLOTTA	FLOTTA	54A	GBFLT
UNITED KINGDOM	GLASGOW	FINNART	54A	GBGGF
UNITED KINGDOM	HAMBLE	HAMBLE	54A	GBHMA
UNITED KINGDOM	HOUND POINT	HOUND POINT	54A	GBHPT
UNITED KINGDOM	TETNEY	TETNEY (HUMBER ESTUARY)	54A	GBHMB
UNITED KINGDOM	IMMINGHAM	APT	54A	GBIMA
UNITED KINGDOM	LIVERPOOL BAY	LIVERPOOL BAY OSI	54A	GBLPO
UNITED KINGDOM	MILFORD HAVEN	MURCO	54A	GBMHM
UNITED KINGDOM	NIGG BAY	NIGG BAY	54A	GBNBT

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
UNITED KINGDOM	OFF SHORE	ANASURIA FPSO	54A	GBOSA
UNITED KINGDOM	OFF SHORE	AOKA MIZU FPSO	54A	GBOSM
UNITED KINGDOM	OFF SHORE	APOLLO SPIRIT FSO	54A	GBOSS
UNITED KINGDOM	OFF SHORE	BLEO HOLM FPSO	54A	GBOSB
UNITED KINGDOM	OFF SHORE	CAPTAIN FPSO	54A	GBOSC
UNITED KINGDOM	OFF SHORE	GRYPHON FPSO	54A	GBOSG
UNITED KINGDOM	OFF SHORE	HOEWENE BRIM FPSO	54A	GBOSH
UNITED KINGDOM	OFF SHORE	MAERSK CURLEW FPSO	54A	GBOSF
UNITED KINGDOM	OFF SHORE	PETROJARL FOINAVEN FPSO	54A	GBOSP
UNITED KINGDOM	OFF SHORE	SCHIEHALLION FPSO	54A	GBOSO
UNITED KINGDOM	OFF SHORE	TRITON FPSO	54A	GBOST
UNITED KINGDOM	OFF SHORE	UISGE GORM FPSO	54A	GBOSU
UNITED KINGDOM	PEMPROKE	CHEVRON	54A	GBPBC
UNITED KINGDOM	SULLOM VOE	SULLOM VOE	54A	GBSVT
UNITED KINGDOM	TEESIDE	CONOCOPHILLIPS	54A	GBTSC
UNITED KINGDOM	TRANMERE	SHELL TRANMERE	54A	GBTMS
VIET NAM	VUNG TAU	CHI LINH	54A	VNVUC
VIET NAM	VUNG TAU	DAI HUNG FSO	54A	VNVUD
VIET NAM	VUNG TAU	QUEENSWAY SU TU VANG FSO	54A	VNVUQ
VIET NAM	VUNG TAU	RANG DONG MV17 FSO	54A	VNVUR
VIET NAM	VUNG TAU	RONG DOI FSO	54A	VNVUF
VIET NAM	VUNG TAU	RUBY PRINCESS	54A	VNVUA
VIET NAM	VUNG TAU	SONG DOC PRIDE MV19	54A	VNVUS
VIET NAM	VUNG TAU	THAIBINH VN FSO	54A	VNVUP
VIET NAM	VUNG TAU	VIETSOVPETRO 01	54A	VNVUV

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
TABLE 60A				
KENYA	MOMBASA	KENYA PETROLEUM REFINERIES LTD (KPRL)	60A	KEMBK
KENYA	MOMBASA	KENYA PETROLEUM REFINERIES LTD (KPRL)	60A	KEMBR
SOUTH AFRICA	MOSSEL BAY	PETROSA	60A	ZAMPB
SOUTH AFRICA	SALDANHA BAY	PETROSA	60A	ZASBP
SOUTH AFRICA	DURBAN	NORTH TANK FARM	60A	ZADNN
SOUTH AFRICA	DURBAN	SOUTH TANK FARM	60A	ZADNS
SOUTH AFRICA	DURBAN	NARCOS	60A	ZADNC

BR-TABLE

BRAZIL	ANGRA DOS REIS	TEBIG	BR-TABLE	BRART
BRAZIL	CAMPOS BASIN	FPSO ESPIRITO SANTO	BR-TABLE	BR5BA
BRAZIL	CAMPOS BASIN	FPSO FLUMINENSE	BR-TABLE	BR5BB
BRAZIL	CAMPOS BASIN	FPSO FRADE	BR-TABLE	BR5BC
BRAZIL	CAMPOS BASIN	FPSO P-32	BR-TABLE	BR5BD
BRAZIL	CAMPOS BASIN	FPSO P-33	BR-TABLE	BR5BE
BRAZIL	CAMPOS BASIN	FPSO P-35	BR-TABLE	BR5BF
BRAZIL	CAMPOS BASIN	FPSO P-47	BR-TABLE	BR5BG
BRAZIL	CAMPOS BASIN	FPSO P-50	BR-TABLE	BR5BH
BRAZIL	CAMPOS BASIN	FPSO POLVO	BR-TABLE	BR5BI
BRAZIL	GUAMARÉ	TA/OPG	BR-TABLE	BRGUT
BRAZIL	PLATAFORM SS11	FSO AVARÉ	BR-TABLE	BRPLF
BRAZIL	RIO GRANDE	DT - TA TERIG	BR-TABLE	BRRGD
BRAZIL	SANTOS	DT-TAS	BR-TABLE	BRSTD
BRAZIL	SANTOS	DT-TAS	BR-TABLE	BRSTT
BRAZIL	SÃO FRANCISCO DO SUL	DT - TA TEFRA	BR-TABLE	BR5FD
BRAZIL	SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	BR-TABLE	BR5SA
BRAZIL	SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	BR-TABLE	BR5SB

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
BRAZIL	SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	BR-TABLE	BRSSC
BRAZIL	SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	BR-TABLE	BRSSD
BRAZIL	TRAMANDAI	DT - TA TEDUT	BR-TABLE	BRTRD

GOST 3900

KAZAKHSTAN	AKTAU	KAZTRANSOIL	GOST 3900	KZAKK
LITHUANIA	BUTINGE	BUTINGE	GOST 3900	LTBUB
RUSSIA	KANDALAKSHA	VITINO	GOST 3900	RUKLV
RUSSIA	KANDALAKSHA	VITINO	GOST 3900	RUKLT
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	GOST 3900	RUNOA
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	GOST 3900	RUNOB
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	GOST 3900	RUNOC
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	GOST 3900	RUNOA
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 3900	RUNOE
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 3900	RUNOF
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 3900	RUNOG
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 3900	RUNOH
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 3900	RUNOI
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 3900	RUNOJ
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 3900	RUNOK
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 3900	RUNOL
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 3900	RUNOM
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 3900	RUNON
RUSSIA	PORT KAVKAZ	KERCH STRAIGHT	GOST 3900	RUPKA
RUSSIA	PORT KAVKAZ	KERCH STRAIGHT	GOST 3900	RUPKB
RUSSIA	PRIMORSK	PRIMORSK	GOST 3900	RUPRA
RUSSIA	PRIMORSK	PRIMORSK	GOST 3900	RUPRB
RUSSIA	PRIMORSK	SMNP PRIMORSK	GOST 3900	RUPRC

COUNTRY	PORT	TERMINAL	VCF TABLE	CODE
RUSSIA	TUAPSE	TUAPSE	GOST 3900	RUTUA
RUSSIA	TUAPSE	TUAPSE	GOST 3900	RUTUB
TURKMENISTAN	ALADJA	KARAGEL	GOST 3900	TMALK
TURKMENISTAN	OKAREM	OKAREM	GOST 3900	TMOKT
UKRAINE	ODESSA	ODESSA OIL TERMINAL	GOST 3900	UAODT
UKRAINE	THEODOSIA	THEODOSIA	GOST 3900	UATHT
UKRAINE	YUZHNY	MARINE OIL TERMINAL "PIVDENNIY"	GOST 3900	UAYZM

OXY

LIBYA	ZUEITINA	ZUEITINA OIL COMPANY	OXY	LYZTA
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S+W

TESTS

METHODS

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
API 10.4				
AUSTRALIA	COSSACK	FPSO	API 10.4	AUCKF
AUSTRALIA	LAMINARIA	NORTHERN ENDEAVOUR	API 10.4	AULMN
AUSTRALIA	NW-SHELF CONDENSATE	WITNELL BAY, DAMPIER	API 10.4	AUNSW
BRAZIL	CAMPOS BASIN	FPSO P-50	API 10.4	BRSBH

ASTM D 95

ANGOLA	SOYO	PALANCA	ASTM D 95	AOSOP
ARGENTINA	PUNTA LOYOLA	PUNTA LOYOLA	ASTM D 95	ARPLL
BAHAMAS	FREEPORT	SOUTH RIDING POINT	ASTM D 95	BSFPS
BANGLADESH	CHITTAGONG	EASTERN REFINERY LTD.	ASTM D 95	BDCHE
CANADA	SAINT JOHN, NB	IRVING OIL (CANAPORT TERMINAL)	ASTM D 95	CASJI
DOMINICAN REPUBLIC	PALENQUE	CONV.BUOY MOORING (CBM)	ASTM D 95	DOPPC
LATVIA	VENTSPILS	VENTSPILS NAFTA	ASTM D 95	LVVVP
NEW ZEALAND	NEW PLYMOUTH	NEW PLYMOUTH	ASTM D 95	NZNPT
NEW ZEALAND	NEW PLYMOUTH	NEWTON KING	ASTM D 95	NZNPK
SYRIA	TARTOUS	SCOT TARTOUS TERMINAL	ASTM D 95	SYTTS
TAIWAN	KAOHSIUNG	KAOHSIUNG	ASTM D 95	TWKST
TAIWAN	MAILIAO	MAILIAO	ASTM D 95	TWMLT
TAIWAN	SHA-LUNG	SHA-LUNG	ASTM D 95	TWSLT
UNITED STATES	SAVANNAH, GA	NUSTAR ENERGY REFINERY	ASTM D 95	USSVN

ASTM D 96

ARGENTINA	PUNTA LOYOLA	PETROBRAS	ASTM D 96	ARPLP
ARGENTINA	PUNTA LOYOLA	PUNTA LOYOLA	ASTM D 96	ARPLL
AUSTRALIA	BARROW ISLAND	BARROW ISLAND	ASTM D 96	AUBIB
AUSTRALIA	BAYU UN DAN	FSO LIBERDADE, BAYU UN DAN	ASTM D 96	AUBUF
AUSTRALIA	COOPER BASIN	PORT BONYTHON	ASTM D 96	AUCBP
AUSTRALIA	COOPER BASIN CONDENSATE	PORT BONYTHON	ASTM D 96	AUCBB

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
AUSTRALIA	JABIRU	FPSO	ASTM D 96	AUJBF
AUSTRALIA	MUTINEER - EXETER	MODEC VENTURE 11	ASTM D 96	AUMEM
AUSTRALIA	DAMPIER - STAG	FPSO DAMPIER SPIRIT	ASTM D 96	AUSTD
AUSTRALIA	THEVENARD	SALADIN MARINE TERMINAL	ASTM D 96	AUTHS
AUSTRALIA	VARANUS ISLAND	VARANUS ISLAND	ASTM D 96	AUVIA
AUSTRALIA	VARANUS ISLAND	VARANUS ISLAND	ASTM D 96	AUVIB
AUSTRALIA	WANDOO	WANDOO MARINE TERMINAL	ASTM D 96	AUWDM
AUSTRALIA	WOOLLYBUTT	FPSO FOUR VANGUARD	ASTM D 96	AUWLF
AUSTRALIA	WORRIOR (COOPER BASIN)	PORT BONYTHON	ASTM D 96	AUWRB
AZERBAIJAN	ABSHERON	CAUCASTRANSERV	ASTM D 96	AZABC
AZERBAIJAN	BAKU	ASTRANSRAIL	ASTM D 96	AZBKA
AZERBAIJAN	SANGACHAL	AZERTRANS	ASTM D 96	AZSGA
BANGLADESH	CHITTAGONG	EASTERN REFINERY LTD.	ASTM D 96	BDCHE
BULGARIA	BOURGAS	ROSENETZ OIL TERMINAL	ASTM D 96	BGBGR
CROATIA	OMISALJ	JADRANSKI NAFTAVOD	ASTM D 96	HROJJ
DOMINICAN REPUBLIC	PALENQUE	CONV.BUOY MOORING (CBM)	ASTM D 96	DOPPC
INDIA	KG D6	FPSO DHIRUBHAI	ASTM D 96	INKGF
INDIA	RAVVA OILFIELD S.YANAM	CAIRN ENERGY	ASTM D 96	INRWC
INDONESIA	ANOJA NATUNA	ANOJA MARINE TERMINAL	ASTM D 96	IDANM
INDONESIA	ARDJUNA	ARDJUNA MARINE TERMINAL	ASTM D 96	IDAJM
INDONESIA	BALONGAN	BALONGAN TERMINAL	ASTM D 96	IDBGT
INDONESIA	BEKAPAI	BEKAPAI TERMINAL	ASTM D 96	IDBPM
INDONESIA	BELANAK	BELANAK MARINE TERMINAL	ASTM D 96	IDBKM
INDONESIA	BELIDA	BELIDA MARINE TERMINAL	ASTM D 96	IDBDM
INDONESIA	BLANG LANCANG	BLANG LANCANG TERMINAL	ASTM D 96	IDBLT
INDONESIA	BONTANG	SANTAN TERMINAL	ASTM D 96	IDBTS
INDONESIA	CINTA	CINTA MARINE TYERMINAL	ASTM D 96	IDCNM
INDONESIA	EXPAN	EXPAN TERMINAL	ASTM D 96	IDEXT

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
INDONESIA	KAKAP	KAKAP NATUNA MARINE TERMINAL	ASTM D 96	IDKKN
INDONESIA	KAKAP	KAKAP NATUNA MARINE TERMINAL	ASTM D 96	IDKKM
INDONESIA	KASIM (SORONG)	KASIM	ASTM D 96	IDKSK
INDONESIA	LALANG	LALANG	ASTM D 96	IDLGL
INDONESIA	LAWI LAWI	LAWI LAWI TERMINAL	ASTM D 96	IDLLT
INDONESIA	OYONG	OYONG TERMINAL	ASTM D 96	IDOYT
INDONESIA	JAMBI -PETROCHINA	PETROCHINA	ASTM D 96	IDPCP
INDONESIA	POLENG	POLENG TERMINAL	ASTM D 96	IDPLT
INDONESIA	SANTAN	SANTAN TERMINAL	ASTM D 96	IDSTT
INDONESIA	SENIPAH	SENIPAH TERMINAL	ASTM D 96	IDSPT
INDONESIA	TIACA	TIACA	ASTM D 96	IDTKT
INDONESIA	TUBAN	TUBAN MARINE TERMINAL	ASTM D 96	IDTBM
INDONESIA	UDANG NATUNA	UDANG MARINE TERMINAL	ASTM D 96	IDUDM
INDONESIA	WIDURI	WIDURI MARINE TERMINAL	ASTM D 96	IDWDW
ITALY	TERMOLI	TOTAL OFF SHORE PLANT	ASTM D 96	ITMT
LIBYA	ALJURF	FARWA F.P.S.O.	ASTM D 96	LYAJF
LIBYA	BOURI	BOURI F.S.O.	ASTM D 96	LYBOB
LIBYA	ES SIDER	WAHA OIL COMPANY	ASTM D 96	LYESW
LIBYA	MARSA EL BREGA	SIRTE OIL COMPANY	ASTM D 96	LYMBS
LIBYA	MARSA EL BREGA	SIRTE OIL COMPANY (CONDENSATE)	ASTM D 96	LYMBC
LIBYA	MARSA EL HARIGA	ARABIAN GULF OIL CO. (A.G.O.C.O.)	ASTM D 96	LYMHA
LIBYA	MELLITAH	MELLITAH GAS	ASTM D 96	LYMTA
LIBYA	MELLITAH	MELLITAH GAS (CONDENSATE)	ASTM D 96	LYMTB
LIBYA	RAS LANUF	HAROUGE OIL OPERATIONS (AMNA)	ASTM D 96	LYRLA
LIBYA	RAS LANUF	HAROUGE OIL OPERATIONS (MESLA)	ASTM D 96	LYRLB
LIBYA	RAS LANUF	HAROUGE OIL OPERATIONS (SIRTICA)	ASTM D 96	LYRLC
LIBYA	ZAWIA	AKAKUS OIL OPERATIONS	ASTM D 96	LYZWA
LIBYA	ZUEITINA	ZUEITINA OIL COMPANY	ASTM D 96	LYZTA

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
LIBYA	ZUEITINA	ZUEITINA OIL COMPANY	ASTM D 96	LYZTB
LIBYA	ZUEITINA	ZUEITINA OIL COMPANY	ASTM D 96	LYZTC
MEXICO	CAYO ARCAS	CAYO ARCAS TERMINAL	ASTM D 96	MXCAT
MEXICO	CAYO ARCAS	TAKUNTAH (FSO)	ASTM D 96	MXCAF
MEXICO	CAYO ARCAS	YUUM KAK NAAB - FPSO	ASTM D 96	MXCAY
MEXICO	CIUDAD MADERO (PUERTO MADERO)	PEMEX REFINERY	ASTM D 96	MXCMP
MEXICO	COATZACOALCOS	PAJARITOS	ASTM D 96	MXCZP
MEXICO	DOS BOCAS	DOS BOCAS	ASTM D 96	MXDBT
MYANMAR	YETAGUN FSO	YETAGUN MARINE TERMINAL	ASTM D 96	MMYTT
NEW ZEALAND	MARSDEN POINT	NEW ZEALAND REFINING CO. (NZRC)	ASTM D 96	NZMPN
NEW ZEALAND	NEW PLYMOUTH	NEW PLYMOUTH	ASTM D 96	NZNPT
NEW ZEALAND	NEW PLYMOUTH	NEWTON KING	ASTM D 96	NZNPK
OMAN	MINA AL FAHAL	PETROLEUM DEVELOPMENT OMAN	ASTM D 96	OMMFP
PAKISTAN	KARACHI	NATIONAL REFINERY LTD.	ASTM D 96	PKKRN
PAKISTAN	KARACHI	PAK ARAB REFINERY LTD.	ASTM D 96	PKKRA
PAKISTAN	KARACHI	PAK ARAB REFINERY LTD.	ASTM D 96	PKKRB
PAKISTAN	KARACHI	PAK ARAB REFINERY LTD.	ASTM D 96	PKKRC
PAKISTAN	KARACHI	PAKISTAN REFINERY LTD.	ASTM D 96	PKKRD
PAKISTAN	PORT QASIM	BOSICOR PAKISTAN LTD.	ASTM D 96	PKPQB
PAPUA NEW GUINEA	KUMUL	KUMUL MARINE TERMINAL	ASTM D 96	PGGPK
ROMANIA	CONSTANTZA	OIL TERMINAL	ASTM D 96	ROCSO
SOUTH AFRICA	DURBAN	SAPREF((SOUTH TANK FARM-STF)	ASTM D 96	ZADBS
THAILAND	ARTHIT	BONGKOT TERMINAL	ASTM D 96	THARB
THAILAND	BONGKOT	BONGKOT TERMINAL	ASTM D 96	THBGT
TUNISIA	ASHTART OFF SHORE	IFRIKIA II	ASTM D 96	TNASI
TUNISIA	LA SKHIRA	TRAPSA	ASTM D 96	TNLST
TUNISIA	LA SKHIRA	TRAPSA	ASTM D 96	TNLSA
UNITED ARAB EMIRATES	DAS ISLAND	ADMA OPCO	ASTM D 96	AEDIA

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED STATES	LINDEN, NJ	CONOCOPHILLIPS - BAYWAY REFINERY	ASTM D 96	USLDC
UNITED STATES	PORT READING, NJ	HESS CORPORATION	ASTM D 96	USPRH
UNITED STATES	WOOD RIVER, IL	MARATHON	ASTM D 96	USWRM
YEMEN	ASH SHIHR	ASH SHIHR	ASTM D 96	YEASA
YEMEN	RAS ISA	SAFER	ASTM D 96	YERIS

ASTM D 473

ANGOLA	CABINDA	KUITO	ASTM D 473	AOCBK
ANGOLA	CABINDA	MALONGO	ASTM D 473	AOCBM
ANGOLA	CABINDA	MALONGO	ASTM D 473	AOCBA
BAHAMAS	FREEPORT	SOUTH RIDING POINT	ASTM D 473	BSFPS
BANGLADESH	CHITTAGONG	EASTERN REFINERY LTD.	ASTM D 473	BDCHE
CAMEROON	CAPE LIMBOH	SONARA REFINERY	ASTM D 473	CMCLS
CAMEROON	KRIBI	KOME KRIBI 1 MARINE	ASTM D 473	CMKKK
CANADA	COME-BY-CHANCE, NF	NORTH ATLANTIC REFINING	ASTM D 473	CACCR
CANADA	SAINT JOHN, NB	IRVING OIL (CANAPORT TERMINAL)	ASTM D 473	CASJI
COLOMBIA	COVEÑAS	ECOPETROL ODC	ASTM D 473	COCOE
COLOMBIA	COVEÑAS	OCENSA	ASTM D 473	COCOO
COLOMBIA	MAMONAL	ECOPETROL	ASTM D 473	COMLE
COLOMBIA	TUMACO	ECOPETROL	ASTM D 473	COTUE
COTE D'IVOIRE	ABIDJAN	SIR II	ASTM D 473	CIAJS
DOMINICAN REPUBLIC	PALENQUE	CONV.BUOY MOORING (CBM)	ASTM D 473	DOPPC
ECUADOR	ESMERALDAS	BALAO	ASTM D 473	ECESB
ECUADOR	ESMERALDAS	OCP	ASTM D 473	ECESO
FRANCE	DONGES	TOTAL RAFFINERY OF DONGES	ASTM D 473	FRDGT
FRANCE	DUNKIRK (DUNKERQUE)	TOTAL RAFFINERY OF FLANDRES	ASTM D 473	FRDKT
FRANCE	FOS-SUR-MER	ESSO	ASTM D 473	FRFSE
FRANCE	FOS-SUR-MER	GIE CRAU	ASTM D 473	FRFSG

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
FRANCE	FOS-SUR-MER	SOUTH EUROPEAN PIPELINE	ASTM D 473	FRFSS
FRANCE	LE HAVRE	COMPANIE INDUSTRIELLE MARITIME	ASTM D 473	FRLHC
FRANCE	LE HAVRE	COMPANIE INDUSTRIELLE MARITIME	ASTM D 473	FRLHA
GEORGIA	BATUMI	BATUMI OIL TERMINAL	ASTM D 473	GEBTT
GEORGIA	SUPSA	SUPSA TERMINAL	ASTM D 473	GESPT
GERMANY	BRUNSBÜTTEL	SHELL REFINERY	ASTM D 473	DEBBS
GERMANY	BRUNSBÜTTEL	TOTAL REFINERY	ASTM D 473	DEBBT
GERMANY	HAMBURG	HOLBORN REFINERY	ASTM D 473	DEHGR
GERMANY	HAMBURG	SHELL REFINERY	ASTM D 473	DEHGS
GERMANY	ROSTOCK	GOR	ASTM D 473	DERSG
GERMANY	WILHELMSHAVEN	NOW TERMINAL	ASTM D 473	DEWHT
GERMANY	WILHELMSHAVEN	WRG REFINERY	ASTM D 473	DEWHR
GREECE	AGIOI THEODOROI	MOTOR OIL REFINERY	ASTM D 473	GRATM
GREECE	ASPROPYRGOS	HELENIC PETROLEUM ASPROPYRGOS REFINERY	ASTM D 473	GRASH
GREECE	ELEUSIS	PETROLA HELLAS REFINERY	ASTM D 473	GREFP
GREECE	PACHI	HELLENIC PETROLEUM ASPROP.REFINERY - MEGARA	ASTM D 473	GRPCH
GREECE	PRINOS OFF SHORE	PRINOS TERMINAL	ASTM D 473	GRPRT
GUATEMALA	SANTO TOMAS DE CASTILLA	PIEDRAS NEGRAS	ASTM D 473	GTSTP
IRAN	KHARG ISLAND	NIOC	ASTM D 473	IRKIA
IRAN	KHARG ISLAND	NIOC	ASTM D 473	IRKIB
IRAN	KHARG ISLAND	NIOC	ASTM D 473	IRKIC
IRAN	KHARG ISLAND	NIOC	ASTM D 473	IRKID
IRAN	KHARG ISLAND	NIOC	ASTM D 473	IRKIE
IRAN	KHARG ISLAND	NIOC	ASTM D 473	IRKIF
IRAN	KHARG ISLAND	NIOC	ASTM D 473	IRKIG
IRAN	KHARG ISLAND	NIOC	ASTM D 473	IRKIH
IRAN	LAVAN ISLAND	IOOC	ASTM D 473	IRLIA
IRAN	LAVAN ISLAND	IOOC	ASTM D 473	IRLIB

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
IRAN	SIRRI ISLAND	IOOC	ASTM D 473	IRSII
ITALY	FALCONARA MARITTIMA	API	ASTM D 473	ITFAA
ITALY	FIUMICINO	ERG-TOTAL	ASTM D 473	ITFCE
ITALY	GELA	ENI	ASTM D 473	ITGLE
ITALY	GENOA	PORTO PETROLI	ASTM D 473	ITGNP
ITALY	MILAZZO	R.A.M.	ASTM D 473	ITMZR
ITALY	PRIOLO GARGALLO	ISAB NORTH SITE (MELILLI OIL TERMINAL)	ASTM D 473	ITPRI
ITALY	SANTA PANAGIA	ISAB SOUTH SITE	ASTM D 473	ITSPI
ITALY	SARROCH	SARAS	ASTM D 473	ITSRS
ITALY	VADO LIGURE	SARPOM	ASTM D 473	ITVLS
KENYA	MOMBASA	KENYA PETROLEUM REFINERIES LTD (KPRL)	ASTM D 473	KEMBK
KENYA	MOMBASA	KENYA PETROLEUM REFINERIES LTD (KPRL)	ASTM D 473	KEMBR
KOREA	DAESAN	HYUNDAI OILBANK	ASTM D 473	KRDSH
KOREA	DAESAN	KOREA NATIONAL OIL CORPORATION	ASTM D 473	KRDSK
KOREA	INCHEON	SK ENEREGY INCHEON COMPLEX	ASTM D 473	KRICS
KOREA	KEOJE ISLANDS	KOREA NATIONAL OIL CORPORATION	ASTM D 473	KRKIK
KOREA	ONSAN	KOREA NATIONAL OIL CORPORATION	ASTM D 473	KROSK
KOREA	ONSAN	S-OIL CORPORATION	ASTM D 473	KROSS
KOREA	ULSAN	SK ENERGY CO LTD	ASTM D 473	KRUSS
KOREA	YOSU	GS CALTEX CORPOATION	ASTM D 473	KRYSG
KOREA	YOSU	KOREA NATIONAL OIL CORPORATION	ASTM D 473	KRYSK
LATVIA	VENTSPILS	VENTSPILS NAFTA	ASTM D 473	LVPV
NETHERLANDS	FLUSHING	TOTAL REFINERY	ASTM D 473	NLFST
NETHERLANDS	ROTTERDAM / EUROPOORT	BP REFINERY EUROPOORT	ASTM D 473	NLRDA
NETHERLANDS	ROTTERDAM / EUROPOORT	BP REFINERY EUROPOORT	ASTM D 473	NLRDB
NETHERLANDS	ROTTERDAM / EUROPOORT	KUWAIT PETROLEUM EUROPOORT	ASTM D 473	NLRDK
NETHERLANDS	ROTTERDAM / EUROPOORT	MAASVLAKTE OLIE TERMINAL	ASTM D 473	NLRDM
NETHERLANDS	ROTTERDAM / EUROPOORT	MAATSCHAP EUROPOORT TERMINAL	ASTM D 473	NLRDE

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
NETHERLANDS	ROTTERDAM / EUROPOORT	SHELL NEDERLAND RAFFINADERIJ EUROPOORT	ASTM D 473	NLRDS
NETHERLANDS	ROTTERDAM / EUROPOORT	TEAM TERMINAL EUROPOORT	ASTM D 473	NLRDT
NETHERLANDS	ROTTERDAM / EUROPOORT	VOPAK TERMINAL EUROPOORT	ASTM D 473	NLRDV
NETHERLANDS ANTILLES	BONAIR RINCON	BOPEC	ASTM D 473	ANBRA
NETHERLANDS ANTILLES	CURACAO, BULLENBAY	BULLEN BAY	ASTM D 473	ANBCA
NETHERLANDS ANTILLES	CURACAO, WILLEMSTAD	ISLA REFINERIA	ASTM D 473	ANCWI
NETHERLANDS ANTILLES	ST EUSTATIUS	STATIA TERMINALS	ASTM D 473	ANSTT
NEW ZEALAND	MARSDEN POINT	NEW ZEALAND REFINING CO. (NZRC)	ASTM D 473	NZMPN
NEW ZEALAND	NEW PLYMOUTH	NEW PLYMOUTH	ASTM D 473	NZNPT
NEW ZEALAND	NEW PLYMOUTH	NEWTON KING	ASTM D 473	NZNPK
NEW ZEALAND	WHANGAREI	NZ REFINING COMPANY	ASTM D 473	NZWGR
NORWAY	BERGEN	STATOIL MONGSTAD	ASTM D 473	NOBNS
NORWAY	TONSBERG	SLAGENTANGEN	ASTM D 473	NOTBS
PHILIPPINES	BATANGAS	SHELL TABANGAO REFINERY	ASTM D 473	PHBGS
POLAND	GDANSK	PORT POLNOCHNY	ASTM D 473	PLGDP
PORTUGAL	SINES	PETROGAL	ASTM D 473	PTSSP
PORTUGAL	SINES	PETROGAL	ASTM D 473	PTSSL
SINGAPORE	JURONG (MOBIL)	EXXONMOBIL JURONG	ASTM D 473	SGSGJ
SINGAPORE	SINGAPORE PORT	EXXONMOBIL OVL2	ASTM D 473	SGSGO
SINGAPORE	PULAU AYER CHAWAN (ESSO)	EXXONMOBIL PAC	ASTM D 473	SGSGP
SINGAPORE	JURONG ISLAND (SRC)	SRC JURONG ISLAND	ASTM D 473	SGSGI
SINGAPORE	SINGAPORE PORT	SRC OVL1	ASTM D 473	SGSGR
SOUTH AFRICA	MOSSEL BAY	PETROSA	ASTM D 473	ZAMBP
SOUTH AFRICA	SALDANHA BAY	PETROSA	ASTM D 473	ZASBP
SOUTH AFRICA	DURBAN	NORTH TANK FARM	ASTM D 473	ZADNN
SOUTH AFRICA	DURBAN	SOUTH TANK FARM	ASTM D 473	ZADNS
SOUTH AFRICA	DURBAN	NARCOS	ASTM D 473	ZADNC
SPAIN	ALGECIRAS	CEPSA	ASTM D 473	ESAGC

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
SPAIN	CASTELLON	BP OIL	ASTM D 473	ESCSB
SPAIN	LA CORUÑA	REPSOL	ASTM D 473	ESLCR
SPAIN	PUERTOS DE TENERIFE (SANTA CRUZ DE TENERIFE)	CEPSA	ASTM D 473	ESSCC
ST. LUCIA	CUL-DE-SAC BAY	HESS OIL ST. LUCIA LTD. (HOSLL)	ASTM D 473	LCCSH
SWEDEN	BROFJORDEN	SCANRAFF	ASTM D 473	SEBJS
SWEDEN	GOTHENBURG	PREEM	ASTM D 473	SEGTP
SWEDEN	GOTHENBURG	SHELL	ASTM D 473	SEGTS
THAILAND	MAPTAPHUT	PTT AR BRANCH 2 (REFINERY)	ASTM D 473	THMTP
THAILAND	MAPTAPHUT	STAR PETROLEUM	ASTM D 473	THMTS
THAILAND	RAYONG	IRPC	ASTM D 473	THRYI
TRINIDAD	GALEOTA POINT	BHP BILITON	ASTM D 473	TTGPH
TRINIDAD	GALEOTA POINT	BP TRINIDAD AND TOBAGO LLC	ASTM D 473	TTGPB
TURKEY	ALIAGA-IZMIR	TUPRAS	ASTM D 473	TRAIT
TURKEY	CEYHAN	CEYHAN MARINE TERMINAL (BTC PIPELINE)	ASTM D 473	TRCYM
TURKEY	TUTUNCIFILIK-IZMIT	TUPRAS	ASTM D 473	TRTUT
UNITED KINGDOM	OFF SHORE	BERYL	ASTM D 473	GBBLO
UNITED KINGDOM	MILFORD HAVEN	MURCO	ASTM D 473	GBMHM
UNITED KINGDOM	PEMPROKE	CHEVRON	ASTM D 473	GBPBC
UNITED KINGDOM	SULLOM VOE	SULLOM VOE	ASTM D 473	GBSVT
UNITED STATES	ALLIANCE, LA	CONOCOPHILLIPS	ASTM D 473	USALC
UNITED STATES	ANACORTES, WA	SHELL OIL PRODUCTS US	ASTM D 473	USANS
UNITED STATES	ANACORTES, WA	TESORO	ASTM D 473	USANT
UNITED STATES	BATON ROUGE, LA	EXXONMOBIL	ASTM D 473	USBRE
UNITED STATES	BATON ROUGE, LA	EXXONMOBIL REFINERY	ASTM D 473	USBRR
UNITED STATES	BAYTOWN, TX	BAYTOWN REFINERY (EXXONMOBIL)	ASTM D 473	USBYR
UNITED STATES	BEAUMONT, TX	EXXONMOBIL	ASTM D 473	USBME
UNITED STATES	BEAUMONT, TX	OTTI	ASTM D 473	USBMO

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED STATES	BENICIA, CA	VALERO	ASTM D 473	USBNV
UNITED STATES	BLAINE, WA	BP	ASTM D 473	USBLB
UNITED STATES	CARSON, CA	BP OIL	ASTM D 473	USCSB
UNITED STATES	CARSON, CA	KINDER MORGAN	ASTM D 473	USCSK
UNITED STATES	CHALMETTE, LA	CHALMETTE REFINING	ASTM D 473	USCMR
UNITED STATES	CHERRY POINT, WA	BP OIL	ASTM D 473	USCHB
UNITED STATES	CONVENT, LA	MOTIVA	ASTM D 473	USCNM
UNITED STATES	CORPUS CHRISTI, TX	CITGO	ASTM D 473	USCCC
UNITED STATES	CORPUS CHRISTI, TX	FLINT HILLS EAST	ASTM D 473	USCCF
UNITED STATES	CORPUS CHRISTI, TX	FLINT HILLS INGLESIDE	ASTM D 473	USCCI
UNITED STATES	CORPUS CHRISTI, TX	FLINT HILLS WEST	ASTM D 473	USCCE
UNITED STATES	CORPUS CHRISTI, TX	MAGELLAN	ASTM D 473	USCCM
UNITED STATES	CORPUS CHRISTI, TX	NUSTAR NORTH BEACH TERMINAL	ASTM D 473	USCCN
UNITED STATES	CORPUS CHRISTI, TX	TRIGEANT	ASTM D 473	USCCT
UNITED STATES	CORPUS CHRISTI, TX	VALERO AVERY POINT	ASTM D 473	USCCV
UNITED STATES	CORPUS CHRISTI, TX	VALERO TULE LAKE	ASTM D 473	USCCL
UNITED STATES	DEER PARK, TX	SHELL REFINERY	ASTM D 473	USDPS
UNITED STATES	DELAWARE CITY, DE	MOTIVA	ASTM D 473	USDCM
UNITED STATES	EL SEGUNDO, CA	CHEVRON TEXACO	ASTM D 473	USESC
UNITED STATES	FERDALE, WA	CONOCOPHILLIPS	ASTM D 473	USFDC
UNITED STATES	FORT MIFFLIN, PA	SUN	ASTM D 473	USFMS
UNITED STATES	GARYVILLE, LA	MARATHON	ASTM D 473	USGVM
UNITED STATES	HOG ISLAND, PA	SUN OIL	ASTM D 473	USHIS
UNITED STATES	HOUSTON, TX	HOUSTON FUEL OIL	ASTM D 473	USHTF
UNITED STATES	HOUSTON, TX	HOUSTON REFINING	ASTM D 473	USHTR
UNITED STATES	HOUSTON, TX	MAGELLAN MIDSTREAM	ASTM D 473	USHTM
UNITED STATES	HOUSTON, TX	OIL TANKING	ASTM D 473	USHTO
UNITED STATES	HOUSTON, TX	PASADENA REFINING	ASTM D 473	USHTP

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED STATES	HOUSTON, TX	VALERO	ASTM D 473	USHTV
UNITED STATES	LAKE CHARLES, LA	CITGO	ASTM D 473	USLCC
UNITED STATES	LONG BEACH, CA	SHELL	ASTM D 473	USLBS
UNITED STATES	LOS ANGELES, CA	BP	ASTM D 473	USLAB
UNITED STATES	LOS ANGELES, CA	CHEVRONTEXACO	ASTM D 473	USLAT
UNITED STATES	LOS ANGELES, CA	CONOCOPHILLIPS	ASTM D 473	USLAC
UNITED STATES	LOS ANGELES, CA	EXXONMOBIL	ASTM D 473	USLAE
UNITED STATES	LOS ANGELES, CA	KINDER MORGAN	ASTM D 473	USLAK
UNITED STATES	LOS ANGELES, CA	PACIFIC TERMINALS	ASTM D 473	USLAP
UNITED STATES	LOS ANGELES, CA	SHELL	ASTM D 473	USLAS
UNITED STATES	LOS ANGELES, CA	VALERO	ASTM D 473	USLAV
UNITED STATES	MANTUA, NJ	CITGO	ASTM D 473	USMTC
UNITED STATES	MARCUS HOOK, PA	SUN	ASTM D 473	USMHC
UNITED STATES	MARTINEZ, CA	ST SERVICES	ASTM D 473	USMZS
UNITED STATES	MARTINEZ, CA	TESORO	ASTM D 473	USMZT
UNITED STATES	MERAUX, LA	MURPHY, LA	ASTM D 473	USMXT
UNITED STATES	MOBILE, AL	ALABAMA BULK	ASTM D 473	USMOA
UNITED STATES	MOBILE, AL	EOTT	ASTM D 473	USMOE
UNITED STATES	MOBILE, AL	SHELL CHEMICAL	ASTM D 473	USMOS
UNITED STATES	MOBILE, AL	TRIGENT	ASTM D 473	USMOT
UNITED STATES	NEDERLAND, TX	CHEVRON TERMINAL	ASTM D 473	USNLC
UNITED STATES	NEDERLAND, TX	SUN	ASTM D 473	USNLS
UNITED STATES	NORCO, LA	MOTIVA	ASTM D 473	USNCM
UNITED STATES	NORCO, LA	VALERO	ASTM D 473	USNCV
UNITED STATES	OFF SHORE, LA	LOOP	ASTM D 473	USOLL
UNITED STATES	PASCAGOULA, MS	CHEVRON	ASTM D 473	USPSC
UNITED STATES	PAULSBORO, NJ	VALERO	ASTM D 473	USPBV
UNITED STATES	PERTH AMBOY, NJ	CHEVRON TEXACO	ASTM D 473	USPEC

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED STATES	PORT ARTHUR, TX	TOTAL	ASTM D 473	USPAT
UNITED STATES	PORT ARTHUR, TX	VALERO	ASTM D 473	USPAV
UNITED STATES	PORT NECHES, TX	MOTIVA	ASTM D 473	USPNM
UNITED STATES	PORTLAND, ME	PORTLAND PIPELINE	ASTM D 473	USPLP
UNITED STATES	RICHMOND, CA	CHEVRON TEXACO REFINERY	ASTM D 473	USRMC
UNITED STATES	RODEO, CA	CONOCOPHILLIPS	ASTM D 473	USRDC
UNITED STATES	SAN FRANCISCO, CA	SHELL	ASTM D 473	USSFS
UNITED STATES	SANTA FE SPRING, CA	GOLDEN WEST	ASTM D 473	USSTG
UNITED STATES	SANTA FE SPRING, CA	POWERINE OIL	ASTM D 473	USSTP
UNITED STATES	SAVANNAH, GA	NUSTAR ENERGY REFINERY	ASTM D 473	USSVN
UNITED STATES	ST ROSE, LA	INTER'L MATEX TANK	ASTM D 473	USSRI
UNITED STATES	ST. JAMES, LA	CAPLINE	ASTM D 473	USSJC
UNITED STATES	ST. JAMES, LA	NUSTAR	ASTM D 473	USSJN
UNITED STATES	ST. JAMES, LA	SUGARLAND	ASTM D 473	USSJS
UNITED STATES	TEXAS CITY, TX	BP	ASTM D 473	USTCB
UNITED STATES	TEXAS CITY, TX	MARATHON (TEPPCO & BP DOCKS)	ASTM D 473	USTCM
UNITED STATES	TEXAS CITY, TX	TEPPCO	ASTM D 473	USTCT
UNITED STATES	TEXAS CITY, TX	VALERO (TEPPCO DOCKS & BP DOCKS)	ASTM D 473	USTCV
UNITED STATES	TRAINER, PA	CONOCOPHILLIPS	ASTM D 473	USTRC
UNITED STATES	VALDEZ, AK	ALYESKA MARINE	ASTM D 473	USVZA
UNITED STATES	WESTVILLE, NJ	COASTAL	ASTM D 473	USWVC
UNITED STATES	WILMINGTON, CA	FLETCHER OIL	ASTM D 473	USWNF
UNITED STATES	WILMINGTON, CA	KINDER MORGAN	ASTM D 473	USWNK
US VIRGIN ISLANDS	LIMETREE BAY, ST. CROIX	HOVENSA LLC	ASTM D 473	VILTH
VENEZUELA	BAJO GRANDE	PDVSA	ASTM D 473	VEBGP
VENEZUELA	EL TABLAZO	PDVSA	ASTM D 473	VEETP
VENEZUELA	JOSE	PDVSA	ASTM D 473	VEJOE
VENEZUELA	JOSE	PETROZUATA	ASTM D 473	VEJOP

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
VENEZUELA	JOSE	TAEJ	ASTM D 473	VEJON
VENEZUELA	JOSE	TAEJ	ASTM D 473	VEJOS
VENEZUELA	JOSE	TOJ	ASTM D 473	VEJOT
VENEZUELA	LA SALINA	PDVSA	ASTM D 473	VELSP
VENEZUELA	PUERTO LA CRUZ	GUARAGUAO	ASTM D 473	VEPLG
VENEZUELA	PUERTO LA CRUZ	PDVSA	ASTM D 473	VEPLP
VENEZUELA	PUERTO MIRANDA	PDVSA	ASTM D 473	VEPMP
YEMEN	ASH SHIHR	ASH SHIHR	ASTM D 473	YEASA
YEMEN	RAS ISA	SAFER	ASTM D 473	YERIS

ASTM D 1744

IRAN	ASALUYEH	NIOC	ASTM D 1744	IRASN
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ASTM D 1796

ARGENTINA	TIERRA DEL FUEGO	CRUZ DEL SUR	ASTM D 1796	ARTFC
BAHAMAS	FREEPORT	SOUTH RIDING POINT	ASTM D 1796	BSFPS
CONGO	DJENO	DJENO SBM	ASTM D 1796	CGDJS
GHANA	PORT OF SALTPOND - OFFSHORE	SALTPOND TERMINAL	ASTM D 1796	GHOSS
INDONESIA	DUMAI	CHEVRON TERMINAL	ASTM D 1796	IDDUC
PHILIPPINES	PALAWAN	FPSO RUBICON INTREPID	ASTM D 1796	PHPWA
TAIWAN	KAOHSIUNG	KAOHSIUNG	ASTM D 1796	TWKST
TAIWAN	MAILIAO	MAILIAO	ASTM D 1796	TWMLT
TAIWAN	SHA-LUNG	SHA-LUNG	ASTM D 1796	TWSLT
THAILAND	JASMINE	JASMINE VENTURE MV7	ASTM D 1796	THJSV
UNITED STATES	BAYTOWN, TX	BAYTOWN REFINERY (EXXONMOBIL)	ASTM D 1796	USBYR
UNITED STATES	DEER PARK, TX	SHELL REFINERY	ASTM D 1796	USDPS
UNITED STATES	HOUSTON, TX	HOUSTON FUEL OIL	ASTM D 1796	USHTF
UNITED STATES	HOUSTON, TX	HOUSTON REFINING	ASTM D 1796	USHTR

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED STATES	HOUSTON, TX	OIL TANKING	ASTM D 1796	USHTO
UNITED STATES	HOUSTON, TX	PASADENA REFINING	ASTM D 1796	USHTP
UNITED STATES	HOUSTON, TX	VALERO	ASTM D 1796	USHTV

ASTM D 4006

ANGOLA	CABINDA	KUITO	ASTM D 4006	AOCBK
ANGOLA	CABINDA	MALONGO	ASTM D 4006	AOCBM
ANGOLA	CABINDA	MALONGO	ASTM D 4006	AOCBA
ARGENTINA	BAHIA BLANCA	OIL TANKING	ASTM D 4006	ARBHO
ARGENTINA	CALETA CORDOVA	TERMAP'S	ASTM D 4006	ARCCB
ARGENTINA	CALETA OLIVIA	TERMAP'S	ASTM D 4006	ARCOT
ARGENTINA	CALETA OLIVIA	TERMAP'S	ASTM D 4006	ARCOA
ARGENTINA	RIO CULLEN	TOTAL AUSTRAL	ASTM D 4006	ARRCT
ARGENTINA	SAN SEBASTIAN	CRUZ DEL SUR	ASTM D 4006	ARSSC
ARGENTINA	TIERRA DEL FUEGO	TOTAL AUSTRAL	ASTM D 4006	ARTFT
ARUBA	COASTAL	COASTAL	ASTM D 4006	AWCSC
ARUBA	SAN NICOLAS	COASTAL	ASTM D 4006	AWSNC
AZERBAIJAN	ABSHERON	CAUCASTRANSERV	ASTM D 4006	AZABC
AZERBAIJAN	BAKU	ASTRANSRAIL	ASTM D 4006	AZBKA
AZERBAIJAN	SANGACHAL	AZERTRANS	ASTM D 4006	AZSGA
CAMEROON	CAPE LIMBOH	SONARA REFINERY	ASTM D 4006	CMCLS
CANADA	COME-BY-CHANCE, NF	NORTH ATLANTIC REFINING	ASTM D 4006	CACCR
COLOMBIA	COVEÑAS	ECOPETROL ODC	ASTM D 4006	COCOE
COLOMBIA	COVEÑAS	OCENSA	ASTM D 4006	COCOO
COLOMBIA	MAMONAL	ECOPETROL	ASTM D 4006	COMLE
COLOMBIA	TUMACO	ECOPETROL	ASTM D 4006	COTUE
COTE D'IVOIRE	ABIDJAN	SIR II	ASTM D 4006	CIAJS
ECUADOR	ESMERALDAS	BALAO	ASTM D 4006	ECESB

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
ECUADOR	ESMERALDAS	OCP	ASTM D 4006	ECESO
EGYPT	ZEIT BAY	ZEIT BAY	ASTM D 4006	EGZBZ
FRANCE	DONGES	TOTAL RAFFINERY OF DONGES	ASTM D 4006	FRDGT
FRANCE	LE HAVRE	COMPANIE INDUSTRIELLE MARITIME	ASTM D 4006	FRLHC
FRANCE	LE HAVRE	COMPANIE INDUSTRIELLE MARITIME	ASTM D 4006	FRLHA
GABON	ETAME	ETAME MARINE TERMINAL	ASTM D 4006	GAETE
GABON	GAMBA	GAMBA TERMINAL	ASTM D 4006	GAGMG
GABON	LIBREVILLE	REMOUVE TERMINAL	ASTM D 4006	GALVP
GABON	LUCINA	LUCINA TERMINAL	ASTM D 4006	GALUT
GABON	OGUENDJO	OGUENDJO TERMINAL	ASTM D 4006	GAOGT
GABON	PORT-GENTIL	CAP LOPEZ	ASTM D 4006	GAPGC
GERMANY	WILHELMSHAVEN	NOW TERMINAL	ASTM D 4006	DEWHT
GREECE	AGIOI THEODOROI	MOTOR OIL REFINERY	ASTM D 4006	GRATM
GREECE	ASPROPYRGOS	HELENIC PETROLEUM ASPROPYRGOS REFINERY	ASTM D 4006	GRASH
GREECE	ELEUSIS	PETROLA HELLAS REFINERY	ASTM D 4006	GREFP
GREECE	PACHI	HELLENIC PETROLEUM ASPROP.REFINERY - MEGARA	ASTM D 4006	GRPCH
GREECE	PRINOS OFF SHORE	PRINOS TERMINAL	ASTM D 4006	GRPRT
IRAN	KHARG ISLAND	NIOC	ASTM D 4006	IRKIA
IRAN	KHARG ISLAND	NIOC	ASTM D 4006	IRKIB
IRAN	KHARG ISLAND	NIOC	ASTM D 4006	IRKIC
IRAN	KHARG ISLAND	NIOC	ASTM D 4006	IRKID
IRAN	KHARG ISLAND	NIOC	ASTM D 4006	IRKIE
IRAN	KHARG ISLAND	NIOC	ASTM D 4006	IRKIF
IRAN	KHARG ISLAND	NIOC	ASTM D 4006	IRKIG
IRAN	KHARG ISLAND	NIOC	ASTM D 4006	IRKIH
IRAN	LAVAN ISLAND	IOOC	ASTM D 4006	IRLIA
IRAN	LAVAN ISLAND	IOOC	ASTM D 4006	IRLIB
IRAN	SIRRI ISLAND	IOOC	ASTM D 4006	IRSII

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
IRAQ	BASRAH OFF-SHORE	BASRAH OIL TERMINAL (ABOT)	ASTM D 4006	IQBSA
IRAQ	BASRAH OFF-SHORE	KHOR AL AMAYA OIL TERMINAL (KAAOT)	ASTM D 4006	IQBSK
ITALY	FALCONARA MARITTIMA	API	ASTM D 4006	ITFAA
ITALY	GELA	ENI	ASTM D 4006	ITGLE
ITALY	GENOA	PORTO PETROLI	ASTM D 4006	ITGNP
ITALY	MILAZZO	R.A.M.	ASTM D 4006	ITMZR
ITALY	TARANTO	ENI REFINERY	ASTM D 4006	ITTRE
JAPAN	CHIBA	COSMO OIL CHIBA	ASTM D 4006	JPCBC
JAPAN	CHIBA	FUJI OIL SODEGAURA	ASTM D 4006	JPCBF
JAPAN	CHIBA	IDEMITSU CHIBA	ASTM D 4006	JPCBI
JAPAN	CHITA	IDEMITSU AICHI	ASTM D 4006	JPCTA
JAPAN	IWAKUNI	NIPPON OIL MARIFU	ASTM D 4006	JPIWN
JAPAN	KANOKAWA	KANOKAWA TERMINAL	ASTM D 4006	JPKKT
JAPAN	KASHIMA	KASHIMA OIL	ASTM D 4006	JPKMO
JAPAN	KAWASAKI	TOA OIL KEIHIN	ASTM D 4006	JPKWT
JAPAN	KIIRE	NIPPON OIL STORAGE KIIRE	ASTM D 4006	JPKRN
JAPAN	KIKUMA	TAIYO OIL SHIKOKU	ASTM D 4006	JPKIT
JAPAN	MIZUSHIMA	JAPAN-ENERGY MIZUSHIMA	ASTM D 4006	JPMZJ
JAPAN	MIZUSHIMA	NIPPON OIL MIZUSHIMA	ASTM D 4006	JPMZN
JAPAN	MURORAN	NIPPON OIL MURORAN	ASTM D 4006	JPMUN
JAPAN	OITA	NIPPON OIL OITA	ASTM D 4006	JPOTN
JAPAN	ONAHAMA	ONAHAMA OIL	ASTM D 4006	JPOHO
JAPAN	OWASE	TOHO OIL	ASTM D 4006	JPOWT
JAPAN	SAKAI	COSMO OIL SAKAI	ASTM D 4006	JPSKC
JAPAN	SAKAI	NIPPON OIL OSAKA	ASTM D 4006	JPSKN
JAPAN	SAKAIDE	COSMO OIL SAKAIDE	ASTM D 4006	JPSDC
JAPAN	SENDAI	NIPPON OIL SENDAI	ASTM D 4006	JPSNN
JAPAN	TOKUYAMA	IDEMITSU TOKUYAM	ASTM D 4006	JPTMI

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
JAPAN	TOMAKOMAI	IDEMITSU HOKKAIDO	ASTM D 4006	JPTKI
JAPAN	TOYAMA	NIHONNKAI OIL TOYAMA	ASTM D 4006	JPTYN
JAPAN	UBE	SEIBU OIL	ASTM D 4006	JPUBS
JAPAN	YOKKAICHI	COSMO OIL YOKKAICHI	ASTM D 4006	JPYKC
JAPAN	YOKKAICHI	SHOWA-YOKKAICHI	ASTM D 4006	JPYKS
JAPAN	YOKOHAMA	NIPPON OIL YOKOHAMA	ASTM D 4006	JPYHN
KOREA	DAESAN	HYUNDAI OILBANK	ASTM D 4006	KRDSH
KOREA	DAESAN	KOREA NATIONAL OIL CORPORATION	ASTM D 4006	KRDSK
KOREA	INCHEON	SK ENEREGY INCHEON COMPLEX	ASTM D 4006	KRICS
KOREA	KEOJE ISLANDS	KOREA NATIONAL OIL CORPORATION	ASTM D 4006	KRKIK
KOREA	ONSAN	KOREA NATIONAL OIL CORPORATION	ASTM D 4006	KROSK
KOREA	ONSAN	S-OIL CORPORATION	ASTM D 4006	KROSS
KOREA	ULSAN	SK ENERGY CO LTD	ASTM D 4006	KRUSS
KOREA	YOSU	GS CALTEX CORPOATION	ASTM D 4006	KRYSG
KOREA	YOSU	KOREA NATIONAL OIL CORPORATION	ASTM D 4006	KRYSK
NETHERLANDS	FLUSHING	TOTAL REFINERY	ASTM D 4006	NLFST
NETHERLANDS ANTILLES	BONAIR RINCON	BOPEC	ASTM D 4006	ANBRA
NETHERLANDS ANTILLES	CURACAO, BULLENBAY	BULLEN BAY	ASTM D 4006	ANCBBA
NETHERLANDS ANTILLES	CURACAO, WILLEMSTAD	ISLA REFINERIA	ASTM D 4006	ANCWI
NIGERIA	ABO	ABO	ASTM D 4006	NGABA
NIGERIA	AGBAMI	AGBAMI	ASTM D 4006	NGAGA
NIGERIA	AMANDA	AMANDA	ASTM D 4006	NGAMA
NIGERIA	ANTAN	ANTAN	ASTM D 4006	NGANA
NIGERIA	BONGA	BONGA	ASTM D 4006	NGBGB
NIGERIA	BONNY	BONNY	ASTM D 4006	NGBNT
NIGERIA	BRASS	BRASS RIVER	ASTM D 4006	NGBRT
NIGERIA	EA FIELD	EA	ASTM D 4006	NGEAT
NIGERIA	ERHA	ERHA	ASTM D 4006	NGERT

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
NIGERIA	ESCRAVOS	ESCRAVOS	ASTM D 4006	NGEST
NIGERIA	FORCADOS	FORCADOS	ASTM D 4006	NGFOT
NIGERIA	IMA	IMA	ASTM D 4006	NGIMT
NIGERIA	ODUDU	ODUDU	ASTM D 4006	NGODT
NIGERIA	OKONO	OKONO	ASTM D 4006	NGOKT
NIGERIA	OKWORI	OKWORI	ASTM D 4006	NGOWT
NIGERIA	PENNINGTON	PENNINGTON	ASTM D 4006	NGPNT
NIGERIA	QUA IBOE	QUA IBOE	ASTM D 4006	NGQIT
NIGERIA	UKPOKITI	UKPOKITI	ASTM D 4006	NGUKT
NIGERIA	YOHO	YOHO	ASTM D 4006	NGYHT
NORWAY	BERGEN	STATOIL MONGSTAD	ASTM D 4006	NOBNS
PHILIPPINES	BATANGAS	SHELL TABANGAO REFINERY	ASTM D 4006	PHBGS
PORTUGAL	SINES	PETROGAL	ASTM D 4006	PTSSP
PORTUGAL	SINES	PETROGAL	ASTM D 4006	PTSSL
SPAIN	PUERTOS DE TENERIFE (SANTA CRUZ DE TENERIFE)	CEPSA	ASTM D 4006	ESSCC
ST. LUCIA	CUL-DE-SAC BAY	HESS OIL ST. LUCIA LTD. (HOSLL)	ASTM D 4006	LCSSH
THAILAND	MAPTAPHUT	PTT AR BRANCH 2 (REFINERY)	ASTM D 4006	THMTP
THAILAND	MAPTAPHUT	STAR PETROLEUM	ASTM D 4006	THMTS
THAILAND	RAYONG	IRPC	ASTM D 4006	THRYI
TRINIDAD	GALEOTA POINT	BHP BILITON	ASTM D 4006	TTGPH
TRINIDAD	GALEOTA POINT	BP TRINIDAD AND TOBAGO LLC	ASTM D 4006	TTGPB
UNITED KINGDOM	MILFORD HAVEN	MURCO	ASTM D 4006	GBMHM
UNITED STATES	ALLIANCE, LA	CONOCOPHILLIPS	ASTM D 4006	USALC
UNITED STATES	BATON ROUGE, LA	EXXONMOBIL	ASTM D 4006	USBRE
UNITED STATES	CARSON, CA	BP OIL	ASTM D 4006	USCSB
UNITED STATES	CARSON, CA	KINDER MORGAN	ASTM D 4006	USCSK
UNITED STATES	CHALMETTE, LA	CHALMETTE REFINING	ASTM D 4006	USCMR

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED STATES	CORPUS CHRISTI, TX	CITGO	ASTM D 4006	USCCC
UNITED STATES	CORPUS CHRISTI, TX	FLINT HILLS EAST	ASTM D 4006	USCCF
UNITED STATES	CORPUS CHRISTI, TX	FLINT HILLS INGLESIDE	ASTM D 4006	USCCI
UNITED STATES	CORPUS CHRISTI, TX	FLINT HILLS WEST	ASTM D 4006	USCCE
UNITED STATES	CORPUS CHRISTI, TX	MAGELLAN	ASTM D 4006	USCCM
UNITED STATES	CORPUS CHRISTI, TX	TRIGEANT	ASTM D 4006	USCCT
UNITED STATES	DELAWARE CITY, DE	MOTIVA	ASTM D 4006	USDCM
UNITED STATES	EL SEGUNDO, CA	CHEVRON TEXACO	ASTM D 4006	USESC
UNITED STATES	HOUSTON, TX	MAGELLAN MIDSTREAM	ASTM D 4006	USHTM
UNITED STATES	LONG BEACH, CA	SHELL	ASTM D 4006	USLBS
UNITED STATES	LOS ANGELES, CA	BP	ASTM D 4006	USLAB
UNITED STATES	LOS ANGELES, CA	CHEVRONTEXACO	ASTM D 4006	USLAT
UNITED STATES	LOS ANGELES, CA	CONOCOPHILLIPS	ASTM D 4006	USLAC
UNITED STATES	LOS ANGELES, CA	EXXONMOBIL	ASTM D 4006	USLAE
UNITED STATES	LOS ANGELES, CA	KINDER MORGAN	ASTM D 4006	USLAK
UNITED STATES	LOS ANGELES, CA	PACIFIC TERMINALS	ASTM D 4006	USLAP
UNITED STATES	LOS ANGELES, CA	SHELL	ASTM D 4006	USLAS
UNITED STATES	MERAUX, LA	MURPHY, LA	ASTM D 4006	USMXT
UNITED STATES	MOBILE, AL	ALABAMA BULK	ASTM D 4006	USMOA
UNITED STATES	MOBILE, AL	EOTT	ASTM D 4006	USMOE
UNITED STATES	MOBILE, AL	SHELL CHEMICAL	ASTM D 4006	USMOS
UNITED STATES	MOBILE, AL	TRIGENT	ASTM D 4006	USMOT
UNITED STATES	NORCO, LA	MOTIVA	ASTM D 4006	USNCM
UNITED STATES	NORCO, LA	VALERO	ASTM D 4006	USNCV
UNITED STATES	PASCAGOULA, MS	CHEVRON	ASTM D 4006	USPSC
UNITED STATES	PERTH AMBOY, NJ	CHEVRON TEXACO	ASTM D 4006	USPEC
UNITED STATES	PORTLAND, ME	PORTLAND PIPELINE	ASTM D 4006	USPLP
UNITED STATES	SANTA FE SPRING, CA	GOLDEN WEST	ASTM D 4006	USSTG

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED STATES	SANTA FE SPRING, CA	POWERINE OIL	ASTM D 4006	USSTP
UNITED STATES	ST ROSE, LA	INTER'L MATEX TANK	ASTM D 4006	USSRI
UNITED STATES	WILMINGTON, CA	FLETCHER OIL	ASTM D 4006	USWNF
UNITED STATES	WILMINGTON, CA	KINDER MORGAN	ASTM D 4006	USWNK
UNITED STATES	YORKTOWN	WESTERN REFINERY YORKTOWN	ASTM D 4006	USYTW
US VIRGIN ISLANDS	LIMETREE BAY, ST. CROIX	HOVENSA LLC	ASTM D 4006	VILTH
VENEZUELA	BAJO GRANDE	PDVSA	ASTM D 4006	VEBGP
VENEZUELA	EL TABLAZO	PDVSA	ASTM D 4006	VEETP
VENEZUELA	JOSE	PDVSA	ASTM D 4006	VEJOE
VENEZUELA	JOSE	PETROZUATA	ASTM D 4006	VEJOP
VENEZUELA	JOSE	TAEJ	ASTM D 4006	VEJON
VENEZUELA	JOSE	TAEJ	ASTM D 4006	VEJOS
VENEZUELA	JOSE	TOJ	ASTM D 4006	VEJOT
VENEZUELA	LA SALINA	PDVSA	ASTM D 4006	VELSP
VENEZUELA	PUERTO LA CRUZ	GUARAGUAO	ASTM D 4006	VEPLG
VENEZUELA	PUERTO LA CRUZ	PDVSA	ASTM D 4006	VEPLP
VENEZUELA	PUERTO MIRANDA	PDVSA	ASTM D 4006	VEPMP

ASTM D 4007

ALGERIA	ARZEW NEW PORT	SONATRACH RTO	ASTM D 4007	DZAZB
ALGERIA	ARZEW NEW PORT	SONATRACH RTO	ASTM D 4007	DZAZC
ALGERIA	ARZEW NEW PORT	SONATRACH RTO	ASTM D 4007	DZAZD
ALGERIA	BEJAIA	SONATRACH RTE	ASTM D 4007	DZBJA
ALGERIA	BEJAIA	SONATRACH RTE	ASTM D 4007	DZBJB
ALGERIA	BEJAIA	SONATRACH RTE	ASTM D 4007	DZBJC
ALGERIA	SKIKDA NEW PORT	SONATRACH RTE	ASTM D 4007	DZSKA
ALGERIA	SKIKDA NEW PORT	SONATRACH RTE	ASTM D 4007	DZSKB
ALGERIA	SKIKDA NEW PORT	SONATRACH RTE	ASTM D 4007	DZSKC

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
ANGOLA	CABINDA	KUITO	ASTM D 4007	AOCBK
ANGOLA	CABINDA	MALONGO	ASTM D 4007	AOCBM
ANGOLA	CABINDA	MALONGO	ASTM D 4007	AOCBA
ANGOLA	SOYO	DALIA CRUDE OIL	ASTM D 4007	AOSOD
ANGOLA	SOYO	GIRASSOL FPSO	ASTM D 4007	AOSOG
ANGOLA	SOYO	KIZOMBA A	ASTM D 4007	AOSOK
ANGOLA	SOYO	KIZOMBA B	ASTM D 4007	AOSOB
ANGOLA	SOYO	KIZOMBA C	ASTM D 4007	AOSOC
ANGOLA	SOYO	SAXI BATUQUE	ASTM D 4007	AOSOS
ANGOLA	SOYO	XIKOMBA	ASTM D 4007	AOSOX
ARGENTINA	TIERRA DEL FUEGO	TOTAL AUSTRAL	ASTM D 4007	ARTFT
BRAZIL	ANGRA DOS REIS	TEBIG	ASTM D 4007	BRART
BRAZIL	CAMPOS BASIN	FPSO ESPIRITO SANTO	ASTM D 4007	BRBBA
BRAZIL	CAMPOS BASIN	FPSO FLUMINENSE	ASTM D 4007	BRBBB
BRAZIL	CAMPOS BASIN	FPSO FRADE	ASTM D 4007	BRBBC
BRAZIL	CAMPOS BASIN	FPSO P-32	ASTM D 4007	BRBBD
BRAZIL	CAMPOS BASIN	FPSO P-33	ASTM D 4007	BRBBE
BRAZIL	CAMPOS BASIN	FPSO P-35	ASTM D 4007	BRBBF
BRAZIL	CAMPOS BASIN	FPSO P-47	ASTM D 4007	BRBBG
BRAZIL	CAMPOS BASIN	FPSO POLVO	ASTM D 4007	BRBBI
BRAZIL	GUAMARÉ	TA/OPG	ASTM D 4007	BRGUT
BRAZIL	PLATAFORM SS11	FSO AVARÉ	ASTM D 4007	BRPLF
BRAZIL	RIO GRANDE	DT - TA TERIG	ASTM D 4007	BRRGD
BRAZIL	SANTOS	DT-TAS	ASTM D 4007	BRSTD
BRAZIL	SANTOS	DT-TAS	ASTM D 4007	BRSTT
BRAZIL	SÃO FRANCISCO DO SUL	DT - TA TEFRAN	ASTM D 4007	BRSHD
BRAZIL	SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	ASTM D 4007	BRSSA
BRAZIL	SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	ASTM D 4007	BRSSB

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
BRAZIL	SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	ASTM D 4007	BRSSC
BRAZIL	SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	ASTM D 4007	BRSSD
BRAZIL	TRAMANDAI	DT - TA TEDUT	ASTM D 4007	BRTRD
BRUNEI	SERIA	SERIA CRUDE OIL TERMINAL	ASTM D 4007	BNSRC
CAMEROON	CAPE LIMBOH	SONARA REFINERY	ASTM D 4007	CMCLS
CAMEROON	EBOME MARINE	EBOME MARINE	ASTM D 4007	CMEME
CAMEROON	KOLE	KOLE MARINE	ASTM D 4007	CMKLM
CAMEROON	MOUDI	MOUDI MARINE	ASTM D 4007	CMMUM
CANADA	BURNABY, BC	KINDER MORGAN WESTRIDGE	ASTM D 4007	CABRK
CHILE	ARICA	TRANSREDES	ASTM D 4007	CLART
CHILE	CALETA CLARENCIA	ENAP CLARENCIA	ASTM D 4007	CLCLE
CHILE	SAN GREGORIO	ENAP GREGORIO	ASTM D 4007	CLGRE
CHILE	QUINTERO	ENAP ACONCAGUA MONOBOUY	ASTM D 4007	CLQUE
CHILE	SAN VICENTE	ENAP BIO BIO TERMINAL 'B'	ASTM D 4007	CLSVE
CHINA	DALIAN	DALIAN XINGANG	ASTM D 4007	CNDLD
CHINA	HAIKOU	HAINAN REFINERY	ASTM D 4007	CNHKH
CHINA	HUIZHOU	GPC/SINOPEC & MBZ/CNOOC	ASTM D 4007	CNHUG
CHINA	MAOMING	MAOMING REFINERY	ASTM D 4007	CNMGR
CHINA	NINGBO	DAXIE SHIHUA	ASTM D 4007	CNNBD
CHINA	NINGBO	SUANSHAN	ASTM D 4007	CNNBS
CHINA	QINGDAO	SINOPEC	ASTM D 4007	CNQDS
CHINA	QINGHUANGDAO	CAOFEIDIAN	ASTM D 4007	CNQGC
CHINA	QUANZHOU	FUJIAN REFINERY	ASTM D 4007	CNQZF
CHINA	SHANGHAI	SHANGHAI	ASTM D 4007	CNSHS
CHINA	SHENZHEN	SHENZHEN	ASTM D 4007	CNSZS
CHINA	TIANJIN	TIANJIN	ASTM D 4007	CNTIT
CHINA	ZHANJIANG PORT	ZHANJIANG	ASTM D 4007	CNZGZ
CHINA	ZHOUSHAN	AOSHAN	ASTM D 4007	CNZSA

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
CHINA	ZHOUSHAN	CEZI	ASTM D 4007	CNZSC
CONGO	AZURITE	FDPSO AZURITE	ASTM D 4007	CGAZD
COTE D'IVOIRE	ABIDJAN	FPSO	ASTM D 4007	CIAJF
COTE D'IVOIRE	ABIDJAN	SIR II	ASTM D 4007	CIAJS
ECUADOR	ESMERALDAS	BALAO	ASTM D 4007	ECESB
EGYPT	EAST ZEIT BAY	EAST ZEIT BAY	ASTM D 4007	EGEZB
EGYPT	MERSA EL HAMRA	EL HAMRA	ASTM D 4007	EGEHH
EGYPT	GEISUM	GEISUM	ASTM D 4007	EGGSG
EGYPT	RAS BUDRAN	RAS BUDRAN	ASTM D 4007	EGRBB
EGYPT	RAS GHARIB	RAS GHARIB	ASTM D 4007	EGRGG
EGYPT	RAS SHUKHEIR	RAS SHUKHEIR	ASTM D 4007	EGRSS
EGYPT	WADI FERIAN	WADI FERIAN	ASTM D 4007	EGWFF
EGYPT	ZAAFARANA	ZAFCO	ASTM D 4007	EGZFZ
EGYPT	ZEIT BAY	ZEIT BAY	ASTM D 4007	EGZBZ
GREECE	AGIOI THEODOROI	MOTOR OIL REFINERY	ASTM D 4007	GRATM
GREECE	ASPROPYRGOS	HELENIC PETROLEUM ASPROPYRGOS REFINERY	ASTM D 4007	GRASH
GREECE	ELEUSIS	PETROLA HELLAS REFINERY	ASTM D 4007	GREFP
GREECE	PACHI	HELLENIC PETROLEUM ASPROPYRGOS REFINERY - MEGARA	ASTM D 4007	GRPCH
GREECE	PRINOS OFF SHORE	PRINOS TERMINAL	ASTM D 4007	GRPRT
GREECE	THESSALONIKI OFF S	EKO THESSALONIKI REFINERY	ASTM D 4007	GRTHE
GUATEMALA	SANTO TOMAS DE CASTILLA	PIEDRAS NEGRAS	ASTM D 4007	GTSTP
EQUATORIAL GUINEA	BATA	CEIBA TERMINAL (FPSO OFFS)	ASTM D 4007	GQBTC
EQUATORIAL GUINEA	MALABO	ZAFIRO TERMINAL (FPSO OFFS)	ASTM D 4007	GQMBZ
IRAN	SOROOSH	IOOC	ASTM D 4007	IRSRI
ITALY	LIVORNO	ENI	ASTM D 4007	ITLVE
JAPAN	CHIBA	COSMO OIL CHIBA	ASTM D 4007	JPCBC
JAPAN	CHIBA	FUJI OIL SODEGAURA	ASTM D 4007	JPCBF
JAPAN	CHIBA	IDEMITSU CHIBA	ASTM D 4007	JPCBI

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
JAPAN	CHITA	IDEMITSU AICHI	ASTM D 4007	JPCTA
JAPAN	IWAKUNI	NIPPON OIL MARIFU	ASTM D 4007	JPIWN
JAPAN	KANOKAWA	KANOKAWA TERMINAL	ASTM D 4007	JPKKT
JAPAN	KASHIMA	KASHIMA OIL	ASTM D 4007	JPKMO
JAPAN	KAWASAKI	TOA OIL KEIHIN	ASTM D 4007	JPKWT
JAPAN	KIIRE	NIPPON OIL STORAGE KIIRE	ASTM D 4007	JPKRN
JAPAN	KIKUMA	TAIYO OIL SHIKOKU	ASTM D 4007	JPKIT
JAPAN	MIZUSHIMA	JAPAN-ENERGY MIZUSHIMA	ASTM D 4007	JPMZJ
JAPAN	MIZUSHIMA	NIPPON OIL MIZUSHIMA	ASTM D 4007	JPMZN
JAPAN	MURORAN	NIPPON OIL MURORAN	ASTM D 4007	JPMUN
JAPAN	OITA	NIPPON OIL OITA	ASTM D 4007	JPOTN
JAPAN	ONAHAMA	ONAHAMA OIL	ASTM D 4007	JPOHO
JAPAN	OWASE	TOHO OIL	ASTM D 4007	JPOWT
JAPAN	SAKAI	COSMO OIL SAKAI	ASTM D 4007	JPSKC
JAPAN	SAKAI	NIPPON OIL OSAKA	ASTM D 4007	JPSKN
JAPAN	SAKAIDE	COSMO OIL SAKAIDE	ASTM D 4007	JPSDC
JAPAN	SENDAI	NIPPON OIL SENDAI	ASTM D 4007	JPSNN
JAPAN	TOKUYAMA	IDEMITSU TOKUYAM	ASTM D 4007	JPTMI
JAPAN	TOMAKOMAI	IDEMITSU HOKKAIDO	ASTM D 4007	JPTKI
JAPAN	TOYAMA	NIHONNKAI OIL TOYAMA	ASTM D 4007	JPTYN
JAPAN	UBE	SEIBU OIL	ASTM D 4007	JPUBS
JAPAN	YOKKAICHI	COSMO OIL YOKKAICHI	ASTM D 4007	JPYKC
JAPAN	YOKKAICHI	SHOWA-YOKKAICHI	ASTM D 4007	JPYKS
JAPAN	YOKOHAMA	NIPPON OIL YOKOHAMA	ASTM D 4007	JPYHN
KOREA	DAESAN	HYUNDAI OILBANK	ASTM D 4007	KRDSH
KOREA	DAESAN	KOREA NATIONAL OIL CORPORATION	ASTM D 4007	KRDSK
KOREA	INCHEON	SK ENEREGY INCHEON COMPLEX	ASTM D 4007	KRICS
KOREA	KEOJE ISLANDS	KOREA NATIONAL OIL CORPORATION	ASTM D 4007	KRKKI

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
KOREA	ONSAN	KOREA NATIONAL OIL CORPORATION	ASTM D 4007	KROSK
KOREA	ONSAN	S-OIL CORPORATION	ASTM D 4007	KROSS
KOREA	ULSAN	SK ENERGY CO LTD	ASTM D 4007	KRUSS
KOREA	YOSU	GS CALTEX CORPOATION	ASTM D 4007	KRYSG
KOREA	YOSU	KOREA NATIONAL OIL CORPORATION	ASTM D 4007	KRYSK
KUWAIT	MINA AL AHMADI	KUWAIT OIL COMPANY	ASTM D 4007	KWMAA
KUWAIT	MINA AL AHMADI	KUWAIT OIL COMPANY	ASTM D 4007	KWMAB
KUWAIT	MINA AL AHMADI	KUWAIT OIL COMPANY	ASTM D 4007	KWMAC
KUWAIT	MINA AL ZOUR	SAUDI ARABIAN CHEVRON	ASTM D 4007	KWMZS
MALAYSIA	ABU	ABU MARINE TERMINAL	ASTM D 4007	MYABM
MALAYSIA	ANGSI	ANGSI MARINE TERMINAL	ASTM D 4007	MYANM
MALAYSIA	BINTULU	BINTULU CRUDE OIL TERMNAL	ASTM D 4007	MYBTT
MALAYSIA	BINTULU	BINTULU CRUDE OIL TERMNAL	ASTM D 4007	MYBTC
MALAYSIA	BINTULU	KIDURONG MARINE TERMINAL	ASTM D 4007	MYBTK
MALAYSIA	BUNGA RAYA	BUNGA RAYA MARINE TERMINAL	ASTM D 4007	MYBRB
MALAYSIA	CENDOR	CENDOR MARINE TERMINAL	ASTM D 4007	MYCMM
MALAYSIA	DULANG	DULANG MARINE TERMINAL	ASTM D 4007	MYDMM
MALAYSIA	KERTEH	TERENGGANU CONDENSATE TERMINAL	ASTM D 4007	MYKTA
MALAYSIA	KERTEH	TERENGGANU CRUDE OIL TERMINAL	ASTM D 4007	MYKTB
MALAYSIA	LABUAN	KIKEH MARINE TERMINAL	ASTM D 4007	MYLBK
MALAYSIA	LABUAN	LABUAN CRUDE OIL TERMINAL	ASTM D 4007	MYLBL
MALAYSIA	MASA	MASA MARINE TERMINAL	ASTM D 4007	MYMMM
MALAYSIA	MIRI	MIRI CRUDE OIL TERMINAL	ASTM D 4007	MYMRM
MALAYSIA	PENARA	PENARA MARINE TERMINAL	ASTM D 4007	MYPMP
MALAYSIA	PUTERI CAKERAWALA	PUTERI CAKERAWALA MARINE TERMINAL	ASTM D 4007	MYPCP
MAURITANIA	OFF SHORE NOUAKCHOTT	CHINGUETTI	ASTM D 4007	MRNKC
MOROCCO	MOHAMMEDIA	MOHAMMEDIA TERMINAL	ASTM D 4007	MAMHT
PERU	BAYOVAR	PETROPERU TERMINAL BAYOVAR	ASTM D 4007	PEBYP

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
PERU	CALLAO	REFINERIA LA PAMPILLA	ASTM D 4007	PECLB
PERU	TALARA	PETROPERU TERMINAL TALARA	ASTM D 4007	PETLP
PHILIPPINES	BATAAN	PETRON BATAAN REFINERY	ASTM D 4007	PHBTP
PHILIPPINES	PALAWAN	MALAMPAYA PLATFORM	ASTM D 4007	PHPWB
PHILIPPINES	PALAWAN	MATINLOC PLATFORM	ASTM D 4007	PHPWC
PHILIPPINES	PALAWAN	NIDO PLATFORM	ASTM D 4007	PHPWD
QATAR	AL SHAHEEN	MAERSK OIL QATAR - FSO	ASTM D 4007	QAASM
QATAR	HALUL ISLAND	QATAR PETROLEUM	ASTM D 4007	QAHIQ
QATAR	MESAIEED	QATAR PETROLEUM	ASTM D 4007	QAMSQ
QATAR	RAS LAFFAN	RAS GAS	ASTM D 4007	QARLA
QATAR	RAS LAFFAN	RAS GAS	ASTM D 4007	QARLB
QATAR	RAS LAFFAN	RAS GAS	ASTM D 4007	QARLC
QATAR	RAS LAFFAN	RAS GAS	ASTM D 4007	QARLD
RUSSIA	VITYAZ ARIA	VITYAZ	ASTM D 4007	RUVAA
RUSSIA	VITYAZ ARIA	VITYAZ	ASTM D 4007	RUVAB
SAUDI ARABIA	JU'AYMAH	SAUDI ARAMCO	ASTM D 4007	SAJUS
SAUDI ARABIA	RAS AL KHAFJI	KHAFJI JOINT OPERATIONS CO.	ASTM D 4007	SARKJ
SAUDI ARABIA	RAS TANURA	SAUDI ARAMCO	ASTM D 4007	SARTA
SAUDI ARABIA	RAS TANURA	SAUDI ARAMCO	ASTM D 4007	SARTB
SAUDI ARABIA	YANBU	SAUDI ARAMCO	ASTM D 4007	SAYBS
SENEGAL	DAKAR	SAR	ASTM D 4007	SNDKS
SINGAPORE	PULAU BUKOM	SHELL BUKOM	ASTM D 4007	SGSGB
SINGAPORE	PULAU BUKOM	SHELL BUKOM SBM	ASTM D 4007	SGSGS
SPAIN	CARTAGENA	REPSOL	ASTM D 4007	ESCGR
SPAIN	HUELVA	CEPSA	ASTM D 4007	ESHVC
SPAIN	TARRAGONA	ASESA	ASTM D 4007	ESTGA
SPAIN	TARRAGONA	REPSOL	ASTM D 4007	ESTGR
SRI LANKA	COLOMBO	CEYPETCO URUGODAWATTA	ASTM D 4007	SLCLC

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
SYRIA	BANIAS	SCOT BANIAS TERMINAL	ASTM D 4007	SYBNS
TANZANIA	DAR ES SALAAM	TAZAMA	ASTM D 4007	TZDST
THAILAND	BENCHAMAS	FSO BENCHAMAS EXPLORER	ASTM D 4007	THBCF
THAILAND	ERAWAN	ERAWAN GASFIELD	ASTM D 4007	THEWG
THAILAND	MAPTAPHUT	PTT AR BRANCH 2 (REFINERY)	ASTM D 4007	THMTP
THAILAND	MAPTAPHUT	STAR PETROLEUM	ASTM D 4007	THMTS
THAILAND	ERAWAN	ERAWAN GASFIELD	ASTM D 4007	THPLE
THAILAND	PATTANI	PLFSO 'PATTANI SPIRIT'	ASTM D 4007	THPNF
THAILAND	SRIRACHA	PTT SEA BERTH	ASTM D 4007	THPTS
THAILAND	RAYONG	IRPC	ASTM D 4007	THRYI
THAILAND	SRIRACHA	ESSO MBM	ASTM D 4007	THSRE
THAILAND	SRIRACHA	THAI OIL SBM 1-2 &CBM	ASTM D 4007	THSRT
THAILAND	TANTAWAN	FSO TANTAWAN EXPLORER	ASTM D 4007	THTTF
THAILAND	KOH SI CHANG TPP	TPP	ASTM D 4007	THTPP
TUNISIA	BIZERTE	STIR	ASTM D 4007	TNBZS
TUNISIA	DIDON OFF SHORE	DIDON	ASTM D 4007	TNDDD
TUNISIA	ODUNA OFF SHORE	LENDEN	ASTM D 4007	TNOUL
TUNISIA	ZARZIS	MARETAP	ASTM D 4007	TNZRM
TURKEY	CEYHAN	BOTAS TERMINAL	ASTM D 4007	TRCYB
UNITED ARAB EMIRATES	JEBEL DHANNA	ADCO	ASTM D 4007	AEJDA
UNITED ARAB EMIRATES	ZIRKU ISLAND	ZADCO	ASTM D 4007	AEZIZ
UNITED STATES	ALLIANCE, LA	CONOCOPHILLIPS	ASTM D 4007	USALC
UNITED STATES	BATON ROUGE, LA	EXXONMOBIL	ASTM D 4007	USBRE
UNITED STATES	BENICIA, CA	VALERO	ASTM D 4007	USBNV
UNITED STATES	CHERRY POINT, WA	BP OIL	ASTM D 4007	USCHB
UNITED STATES	DELAWARE CITY, DE	MOTIVA	ASTM D 4007	USDCM
UNITED STATES	FORT MIFFLIN, PA	SUN	ASTM D 4007	USFMS
UNITED STATES	HOG ISLAND, PA	SUN OIL	ASTM D 4007	USHIS

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED STATES	KROTZ SPRINGS, LA	VALERO	ASTM D 4007	USKSV
UNITED STATES	LONG BEACH, CA	SHELL	ASTM D 4007	USLBS
UNITED STATES	LOS ANGELES, CA	BP	ASTM D 4007	USLAB
UNITED STATES	LOS ANGELES, CA	CONOCOPHILLIPS	ASTM D 4007	USLAC
UNITED STATES	LOS ANGELES, CA	EXXONMOBIL	ASTM D 4007	USLAE
UNITED STATES	LOS ANGELES, CA	KINDER MORGAN	ASTM D 4007	USLAK
UNITED STATES	LOS ANGELES, CA	PACIFIC TERMINALS	ASTM D 4007	USLAP
UNITED STATES	LOS ANGELES, CA	SHELL	ASTM D 4007	USLAS
UNITED STATES	MANTUA, NJ	CITGO	ASTM D 4007	USMTC
UNITED STATES	MARCUS HOOK, PA	SUN	ASTM D 4007	USMHC
UNITED STATES	MARTINEZ, CA	ST SERVICES	ASTM D 4007	USMZS
UNITED STATES	MARTINEZ, CA	TESORO	ASTM D 4007	USMZT
UNITED STATES	MERAUX, LA	MURPHY, LA	ASTM D 4007	USMXT
UNITED STATES	MOBILE, AL	ALABAMA BULK	ASTM D 4007	USMOA
UNITED STATES	MOBILE, AL	EOTT	ASTM D 4007	USMOE
UNITED STATES	MOBILE, AL	SHELL CHEMICAL	ASTM D 4007	USMOS
UNITED STATES	MOBILE, AL	TRIGENT	ASTM D 4007	USMOT
UNITED STATES	NORCO, LA	MOTIVA	ASTM D 4007	USNCM
UNITED STATES	NORCO, LA	VALERO	ASTM D 4007	USNCV
UNITED STATES	PASCAGOULA, MS	CHEVRON	ASTM D 4007	USPSC
UNITED STATES	PAULSBORO, NJ	VALERO	ASTM D 4007	USPBV
UNITED STATES	PORTLAND, ME	PORTLAND PIPELINE	ASTM D 4007	USPLP
UNITED STATES	RICHMOND, CA	CHEVRON TEXACO REFINERY	ASTM D 4007	USRMC
UNITED STATES	RODEO, CA	CONOCOPHILLIPS	ASTM D 4007	USRDC
UNITED STATES	SAN FRANCISCO, CA	SHELL	ASTM D 4007	USSFS
UNITED STATES	SANTA FE SPRING, CA	GOLDEN WEST	ASTM D 4007	USSTG
UNITED STATES	SANTA FE SPRING, CA	POWERINE OIL	ASTM D 4007	USSTP
UNITED STATES	SAVANNAH, GA	NUSTAR ENERGY REFINERY	ASTM D 4007	USSVN

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED STATES	ST ROSE, LA	INTER'L MATEX TANK	ASTM D 4007	USSRI
UNITED STATES	TRAINER, PA	CONOCOPHILLIPS	ASTM D 4007	USTRC
UNITED STATES	VALDEZ, AK	ALYESKA MARINE	ASTM D 4007	USVZA
UNITED STATES	WESTVILLE, NJ	COASTAL	ASTM D 4007	USWVC
UNITED STATES	WILMINGTON, CA	FLETCHER OIL	ASTM D 4007	USWNF
UNITED STATES	WILMINGTON, CA	KINDER MORGAN	ASTM D 4007	USWNK
VIET NAM	VUNG TAU	CHI LINH	ASTM D 4007	VNVUC
VIET NAM	VUNG TAU	DAI HUNG FSO	ASTM D 4007	VNVUD
VIET NAM	VUNG TAU	QUEENSWAY SU TU VANG FSO	ASTM D 4007	VNVUQ
VIET NAM	VUNG TAU	RANG DONG MV17 FSO	ASTM D 4007	VNVUR
VIET NAM	VUNG TAU	RONG DOI FSO	ASTM D 4007	VNVUF
VIET NAM	VUNG TAU	RUBY PRINCESS	ASTM D 4007	VNVUA
VIET NAM	VUNG TAU	THAIBINH VN FSO	ASTM D 4007	VNVUP
VIET NAM	VUNG TAU	VIETSOVPETRO 01	ASTM D 4007	VNVUV

ASTM D 4377

CANADA	ARNOLD'S COVE, NF	IMTT	ASTM D 4377	CAACI
CANADA	DARTMOUTH, NS	IMPERIAL OIL	ASTM D 4377	CADMI
CANADA	POINT TUPPER, NS	NUSTAR ENERGY LP	ASTM D 4377	CAPTN
FRANCE	DUNKIRK (DUNKERQUE)	TOTAL RAFFINERY OF FLANDRES	ASTM D 4377	FRDKT
FRANCE	FOS-SUR-MER	ESSO	ASTM D 4377	FRFSE
FRANCE	FOS-SUR-MER	GIE CRAU	ASTM D 4377	FRFSG
FRANCE	FOS-SUR-MER	SOUTH EUROPEAN PIPELINE	ASTM D 4377	FRFSS
GREECE	THESSALONIKI OFF S	EKO THESSALONIKI REFINERY	ASTM D 4377	GRTHE
ITALY	AUGUSTA	ESSO	ASTM D 4377	ITAGE
ITALY	FIUMICINO	ERG-TOTAL	ASTM D 4377	ITFCE
ITALY	PRIOLO GARGALLO	ISAB NORTH SITE (MELILLI OIL TERMINAL)	ASTM D 4377	ITPRI
ITALY	SANTA PANAGIA	ISAB SOUTH SITE	ASTM D 4377	ITSPI

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
ITALY	SARROCH	SARAS	ASTM D 4377	ITSRS
ITALY	VADO LIGURE	SARPOM	ASTM D 4377	ITVLS
JAPAN	CHIBA	KYOKUTO OIL	ASTM D 4377	JPCBK
JAPAN	KAWASAKI	TONENGENERAL KAWASAKI	ASTM D 4377	JPKWK
JAPAN	KIN-NAKAGUSUKU	NANSEI SEKIYU	ASTM D 4377	JPKNN
JAPAN	SAKAI	TONENGENERAL SAKAI	ASTM D 4377	JPSKT
JAPAN	SHIMOTSU	TONENGENERAL WAKAYAMA	ASTM D 4377	JPSMT
KENYA	MOMBASA	KENYA PETROLEUM REFINERIES LTD (KPRL)	ASTM D 4377	KEMBK
KENYA	MOMBASA	KENYA PETROLEUM REFINERIES LTD (KPRL)	ASTM D 4377	KEMBR
POLAND	GDANSK	PORT POLNOCNY	ASTM D 4377	PLGDP
PORTUGAL	LEIXÕES	PETROGAL	ASTM D 4377	PTLXP
RUSSIA	DE-KASTRI	DE-KASTRI TERMINAL	ASTM D 4377	RUDKT
SINGAPORE	JURONG (MOBIL)	EXXONMOBIL JURONG	ASTM D 4377	SGSGJ
SINGAPORE	SINGAPORE PORT	EXXONMOBIL OVL2	ASTM D 4377	SGSGO
SINGAPORE	PULAU AYER CHAWAN (ESSO)	EXXONMOBIL PAC	ASTM D 4377	SGSGP
SINGAPORE	JURONG ISLAND (SRC)	SRC JURONG ISLAND	ASTM D 4377	SGSGI
SINGAPORE	SINGAPORE PORT	SRC OVL1	ASTM D 4377	SGSGR
SPAIN	CASTELLON	BP OIL	ASTM D 4377	ESCSB
SWEDEN	BROFJORDEN	SCANRAFF	ASTM D 4377	SEBJS
SWEDEN	GOTHENBURG	PREEM	ASTM D 4377	SEGTP
SWEDEN	GOTHENBURG	SHELL	ASTM D 4377	SEGTS
UNITED STATES	BATON ROUGE, LA	EXXONMOBIL REFINERY	ASTM D 4377	USBRR
UNITED STATES	BAYTOWN, TX	BAYTOWN REFINERY (EXXONMOBIL)	ASTM D 4377	USBYR
UNITED STATES	CORPUS CHRISTI, TX	NUSTAR NORTH BEACH TERMINAL	ASTM D 4377	USCCN
UNITED STATES	CORPUS CHRISTI, TX	VALERO AVERY POINT	ASTM D 4377	USCCV
UNITED STATES	CORPUS CHRISTI, TX	VALERO TULE LAKE	ASTM D 4377	USCCL
UNITED STATES	DEER PARK, TX	SHELL REFINERY	ASTM D 4377	USDPS
UNITED STATES	DELAWARE CITY, DE	MOTIVA	ASTM D 4377	USDCM

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED STATES	FORT MIFFLIN, PA	SUN	ASTM D 4377	USFMS
UNITED STATES	FREEPORT, TX	CONOCOPHILLIPS	ASTM D 4377	USFPC
UNITED STATES	FREEPORT, TX	TEPPCO SEAWAY	ASTM D 4377	USFPT
UNITED STATES	HOG ISLAND, PA	SUN OIL	ASTM D 4377	USHIS
UNITED STATES	HOUSTON, TX	HOUSTON FUEL OIL	ASTM D 4377	USHTF
UNITED STATES	HOUSTON, TX	HOUSTON REFINING	ASTM D 4377	USHTR
UNITED STATES	HOUSTON, TX	MAGELLAN MIDSTREAM	ASTM D 4006	USHTM
UNITED STATES	HOUSTON, TX	OIL TANKING	ASTM D 4377	USHTO
UNITED STATES	HOUSTON, TX	PASADENA REFINING	ASTM D 4377	USHTP
UNITED STATES	HOUSTON, TX	VALERO	ASTM D 4377	USHTV
UNITED STATES	LOS ANGELES, CA	VALERO	ASTM D 4377	USLAV
UNITED STATES	MANTUA, NJ	CITGO	ASTM D 4377	USMTC
UNITED STATES	MARCUS HOOK, PA	SUN	ASTM D 4377	USMHC
UNITED STATES	PAULSBORO, NJ	VALERO	ASTM D 4377	USPBV
UNITED STATES	TRAINER, PA	CONOCOPHILLIPS	ASTM D 4377	USTRC
UNITED STATES	VALDEZ, AK	ALYESKA MARINE	ASTM D 4377	USVZA
UNITED STATES	WESTVILLE, NJ	COASTAL	ASTM D 4377	USWVC
YEMEN	ASH SHIHR	ASH SHIHR	ASTM D 4377	YEASA
YEMEN	RAS ISA	SAFER	ASTM D 4377	YERIS

ASTM D 4807

ARGENTINA	BAHIA BLANCA	OIL TANKING	ASTM D 4807	ARBHO
ARGENTINA	CALETA CORDOBA	TERMAP'S	ASTM D 4807	ARCCA
ARGENTINA	CALETA CORDOVA	TERMAP'S	ASTM D 4807	ARCCB
ARGENTINA	CALETA OLIVIA	TERMAP'S	ASTM D 4807	ARCOT
ARGENTINA	CALETA OLIVIA	TERMAP'S	ASTM D 4807	ARCOA
ARGENTINA	PUERTO ROSALES	OIL TANKING EVITEM	ASTM D 4807	ARPRO
ARGENTINA	RIO CULLEN	TOTAL AUSTRAL	ASTM D 4807	ARRCT

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
ARGENTINA	SAN SEBASTIAN	CRUZ DEL SUR	ASTM D 4807	ARSSC
AZERBAIJAN	ABSHERON	CAUCASTRANSERV	ASTM D 4807	AZABC
AZERBAIJAN	BAKU	ASTRANSRAIL	ASTM D 4807	AZBKA
AZERBAIJAN	SANGACHAL	AZERTRANS	ASTM D 4807	AZSGA
CANADA	ARNOLD'S COVE, NF	IMTT	ASTM D 4807	CAACI
CANADA	DARTMOUTH, NS	IMPERIAL OIL	ASTM D 4807	CADMI
CANADA	POINT TUPPER, NS	NUSTAR ENERGY LP	ASTM D 4807	CAPTN
CANADA	BURNABY, BC	KINDER MORGAN WESTRIDGE	ASTM D 4807	CABRK
EGYPT	AIN SUKHNA	AIN SUKHNA	ASTM D 4807	EGASA
EGYPT	SIDI KERIR	SIDI KERIR	ASTM D 4807	EGSKS
GREECE	THESSALONIKI OFF S	EKO THESSALONIKI REFINERY	ASTM D 4807	GRTHE
INDIA	MUMBAI	ONGC	ASTM D 4807	INMUO
ITALY	AUGUSTA	ESSO	ASTM D 4807	ITAGE
ITALY	PORTO MARGHERA	ENI - SAN LEONARDO	ASTM D 4807	ITVNE
JAPAN	CHIBA	KYOKUTO OIL	ASTM D 4807	JPCBK
JAPAN	KAWASAKI	TONENGENERAL KAWASAKI	ASTM D 4807	JKWKK
JAPAN	KIN-NAKAGUSUKU	NANSEI SEKIYU	ASTM D 4807	JKPKN
JAPAN	SAKAI	TONENGENERAL SAKAI	ASTM D 4807	JPSKT
JAPAN	SHIMOTSU	TONENGENERAL WAKAYAMA	ASTM D 4807	JPSMT
PORTUGAL	LEIXÕES	PETROGAL	ASTM D 4807	PTLXP
RUSSIA	DE-KASTRI	DE-KASTRI TERMINAL	ASTM D 4807	RUDKT
UNITED KINGDOM	CORYTON	PETROPLUS	ASTM D 4807	GBCTP
UNITED KINGDOM	FAWLEY	ESSO FAWLEY	ASTM D 4807	GBFWE
UNITED KINGDOM	HAMBLE	HAMBLE	ASTM D 4807	GBHMA
UNITED KINGDOM	TETNEY	TETNEY (HUMBER ESTUARY)	ASTM D 4807	GBHMB
UNITED KINGDOM	IMMINGHAM	APT	ASTM D 4807	GBIMA
UNITED KINGDOM	NIGG BAY	NIGG BAY	ASTM D 4807	GBNBT

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED STATES	FREEPORT, TX	CONOCOPHILLIPS	ASTM D 4807	USFPFC
UNITED STATES	FREEPORT, TX	TEPPCO SEAWAY	ASTM D 4807	USFPPT
UNITED STATES	LAKE CHARLES, LA	CONOCOPHILLIPS	ASTM D 4807	USLCP

ASTM D 4928

ANGOLA	SOYO	GREATER PLUTONIO	ASTM D 4928	AOSOA
ANGOLA	SOYO	KIZOMBA A	ASTM D 4928	AOSOK
ANGOLA	SOYO	KIZOMBA B	ASTM D 4928	AOSOB
ANGOLA	SOYO	KIZOMBA C	ASTM D 4928	AOSOC
ANGOLA	SOYO	XIKOMBA	ASTM D 4928	AOSOX
ARGENTINA	CALETA CORDOBA	TERMAP'S	ASTM D 4928	ARCCA
ARGENTINA	PUERTO ROSALES	OIL TANKING EVITEM	ASTM D 4928	ARPRO
CAMEROON	KRIBI	KOME KRIBI 1 MARINE	ASTM D 4928	CMKKK
CANADA	BURNABY, BC	KINDER MORGAN WESTRIDGE	ASTM D 4928	CABRK
EGYPT	AIN SUKHNA	AIN SUKHNA	ASTM D 4928	EGASA
EGYPT	SIDI KERIR	SIDI KERIR	ASTM D 4928	EGSKS
GEORGIA	BATUMI	BATUMI OIL TERMINAL	ASTM D 4928	GEBTT
GEORGIA	SUPSA	SUPSA TERMINAL	ASTM D 4928	GESPT
GERMANY	BRUNSBÜTTEL	SHELL REFINERY	ASTM D 4928	DEBBS
GERMANY	BRUNSBÜTTEL	TOTAL REFINERY	ASTM D 4928	DEBBT
GERMANY	HAMBURG	HOLBORN REFINERY	ASTM D 4928	DEHGR
GERMANY	HAMBURG	SHELL REFINERY	ASTM D 4928	DEHGS
GERMANY	ROSTOCK	GOR	ASTM D 4928	DERSG
GERMANY	WILHELMSHAVEN	WRG REFINERY	ASTM D 4928	DEWHR
GUATEMALA	SANTO TOMAS DE CASTILLA	PIEDRAS NEGRAS	ASTM D 4928	GTSTP
EQUATORIAL GUINEA	BATA	CEIBA TERMINAL (FPSO OFFS)	ASTM D 4928	GQBTC
EQUATORIAL GUINEA	MALABO	ZAFIRO TERMINAL (FPSO OFFS)	ASTM D 4928	GQMBZ
ITALY	PORTO MARGHERA	ENI - SAN LEONARDO	ASTM D 4928	ITVNE

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
NETHERLANDS	ROTTERDAM / EUROPOORT	BP REFINERY EUROPOORT	ASTM D 4928	NLRDA
NETHERLANDS	ROTTERDAM / EUROPOORT	BP REFINERY EUROPOORT	ASTM D 4928	NLRDB
NETHERLANDS	ROTTERDAM / EUROPOORT	KUWAIT PETROLEUM EUROPOORT	ASTM D 4928	NLRDK
NETHERLANDS	ROTTERDAM / EUROPOORT	MAASVLAKTE OLIE TERMINAL	ASTM D 4928	NLRDM
NETHERLANDS	ROTTERDAM / EUROPOORT	MAATSCHAP EUROPOORT TERMINAL	ASTM D 4928	NLRDE
NETHERLANDS	ROTTERDAM / EUROPOORT	SHELL NEDERLAND RAFFINADERIJ EUROPOORT	ASTM D 4928	NLRDS
NETHERLANDS	ROTTERDAM / EUROPOORT	TEAM TERMINAL EUROPOORT	ASTM D 4928	NLRDT
NETHERLANDS	ROTTERDAM / EUROPOORT	VOPAK TERMINAL EUROPOORT	ASTM D 4928	NLRDV
NETHERLANDS ANTILLES	ST EUSTATIUS	STATIA TERMINALS	ASTM D 4928	ANSTT
NEW ZEALAND	MARSDEN POINT	NEW ZEALAND REFINING CO. (NZRC)	ASTM D 4928	NZMPN
NEW ZEALAND	WHANGAREI	NZ REFINING COMPANY	ASTM D 4928	NZWGR
NORWAY	BALDER	ESSO	ASTM D 4928	NOBLE
NORWAY	JOTUN	ESSO	ASTM D 4928	NOJOE
NORWAY	MONGSTAD	STATOILHYDRO MONGSTAD	ASTM D 4928	NOMGS
NORWAY	STURE	NORSK HYDRO	ASTM D 4928	NOSTN
NORWAY	STURE	STATOILHYDRO STURE	ASTM D 4928	NOSTS
NORWAY	TONSBERG	SLAGENTANGEN	ASTM D 4928	NOTBS
SOUTH AFRICA	MOSEL BAY	PETROSA	ASTM D 4928	ZAMPB
SOUTH AFRICA	SALDANHA BAY	PETROSA	ASTM D 4928	ZASBP
SOUTH AFRICA	DURBAN	NORTH TANK FARM	ASTM D 4928	ZADNN
SOUTH AFRICA	DURBAN	SOUTH TANK FARM	ASTM D 4928	ZADNS
SOUTH AFRICA	DURBAN	NARCOS	ASTM D 4928	ZADNC
SPAIN	ALGECIRAS	CEPSA	ASTM D 4928	ESAGC
TURKEY	ALIAGA-IZMIR	TUPRAS	ASTM D 4928	TRAIT
TURKEY	CEYHAN	CEYHAN MARINE TERMINAL (BTC PIPELINE)	ASTM D 4928	TRCYM
TURKEY	TUTUNCIFILIK-IZMIT	TUPRAS	ASTM D 4928	TRTUT
UNITED ARAB EMIRATES	FATEH	DUBAI PETROLEUM ESTABLISHMENT	ASTM D 4928	AEFTD
UNITED KINGDOM	CORYTON	PETROPLUS	ASTM D 4928	GBCTP

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED KINGDOM	HAMBLE	HAMBLE	ASTM D 4928	GBHMA
UNITED STATES	ANACORTES, WA	SHELL OIL PRODUCTS US	ASTM D 4928	USANS
UNITED STATES	ANACORTES, WA	TESORO	ASTM D 4928	USANT
UNITED STATES	BEAUMONT, TX	EXXONMOBIL	ASTM D 4928	USBME
UNITED STATES	BEAUMONT, TX	OTTI	ASTM D 4928	USBMO
UNITED STATES	BENICIA, CA	VALERO	ASTM D 4928	USBV
UNITED STATES	BLAINE, WA	BP	ASTM D 4928	USBLB
UNITED STATES	CHERRY POINT, WA	BP OIL	ASTM D 4928	USCHB
UNITED STATES	CONVENT, LA	MOTIVA	ASTM D 4928	USCNM
UNITED STATES	FERNDALE, WA	CONOCOPHILLIPS	ASTM D 4928	USFDC
UNITED STATES	GARYVILLE, LA	MARATHON	ASTM D 4928	USGVM
UNITED STATES	LAKE CHARLES, LA	CITGO	ASTM D 4928	USLCC
UNITED STATES	LAKE CHARLES, LA	CONOCOPHILLIPS	ASTM D 4928	USLCP
UNITED STATES	MARTINEZ, CA	ST SERVICES	ASTM D 4928	USMZS
UNITED STATES	MARTINEZ, CA	TESORO	ASTM D 4928	USMZT
UNITED STATES	NEDERLAND, TX	CHEVRON TERMINAL	ASTM D 4928	USNLC
UNITED STATES	NEDERLAND, TX	SUN	ASTM D 4928	USNLS
UNITED STATES	OFF SHORE, LA	LOOP	ASTM D 4928	USOLL
UNITED STATES	PORT ARTHUR, TX	TOTAL	ASTM D 4928	USPAT
UNITED STATES	PORT ARTHUR, TX	VALERO	ASTM D 4928	USPAV
UNITED STATES	PORT NECHES, TX	MOTIVA	ASTM D 4928	USPNM
UNITED STATES	RICHMOND, CA	CHEVRON TEXACO REFINERY	ASTM D 4928	USRMC
UNITED STATES	RODEO, CA	CONOCOPHILLIPS	ASTM D 4928	USRDC
UNITED STATES	SAN FRANCISCO, CA	SHELL	ASTM D 4928	USSFS
UNITED STATES	ST. JAMES, LA	CAPLINE	ASTM D 4928	USSJC
UNITED STATES	ST. JAMES, LA	NUSTAR	ASTM D 4928	USSJN
UNITED STATES	ST. JAMES, LA	SUGARLAND	ASTM D 4928	USSJS
UNITED STATES	TEXAS CITY, TX	BP	ASTM D 4928	USTCB

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
UNITED STATES	TEXAS CITY, TX	MARATHON (TEPPCO & BP DOCKS)	ASTM D 4928	USTCM
UNITED STATES	TEXAS CITY, TX	TEPPCO	ASTM D 4928	USTCT
UNITED STATES	TEXAS CITY, TX	VALERO (TEPPCO DOCKS & BP DOCKS)	ASTM D 4928	USTCV

ASTM D 6304

SPAIN	BILBAO	PETRONOR (REPSOL)	ASTM D 6304	ESBIP
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DIN 51777

ITALY	TRIESTE	S.I.O.T.	DIN 51777	ITTSS
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GOST 2477

KAZAKHSTAN	AKTAU	KAZTRANSOIL	GOST 2477	KZAKK
LITHUANIA	BUTINGE	BUTINGE	GOST 2477	LTBUB
RUSSIA	DE-KASTRI	DE-KASTRI TERMINAL	GOST 2477	RUDKD
RUSSIA	DE-KASTRI	DE-KASTRI TERMINAL	GOST 2477	RUDKK
RUSSIA	KANDALAKSHA	VITINO	GOST 2477	RUKLV
RUSSIA	KANDALAKSHA	VITINO	GOST 2477	RUKLT
RUSSIA	KROTOVKA	KROTOVKA ST.	GOST 2477	RUKTK
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	GOST 2477	RUNOA
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	GOST 2477	RUNOB
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	GOST 2477	RUNOC
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	GOST 2477	RUNOA
RUSSIA	NOVOROSSIYSK	CPC-R TERMINAL	GOST 2477	RUNOB
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 2477	RUNOE
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 2477	RUNOF
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 2477	RUNOG
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 2477	RUNOH
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 2477	RUNOI
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 2477	RUNOJ

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	GOST 2477	RUNOK
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	GOST 2477	RUNOL
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	GOST 2477	RUNOM
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	GOST 2477	RUNON
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	GOST 2477	RUNOO
RUSSIA	NOVOSERGIEVSKAYA	NOVOSERGIEVSKAYA ST.	GOST 2477	RUNSN
RUSSIA	OKRUZHNOE ARIA -OKHOTSK	OKRUZHNOE - SAKHALIN	GOST 2477	RUOAA
RUSSIA	OKRUZHNOE ARIA	OKRUZHNOE - SAKHALIN	GOST 2477	RUOAB
RUSSIA	PORT KAVKAZ	KERCH STRAIGHT	GOST 2477	RUPKA
RUSSIA	PORT KAVKAZ	KERCH STRAIGHT	GOST 2477	RUPKB
RUSSIA	PRIMORSK	PRIMORSK	GOST 2477	RUPRA
RUSSIA	PRIMORSK	PRIMORSK	GOST 2477	RUPRB
RUSSIA	PRIMORSK	SMNP PRIMORSK	GOST 2477	RUPRC
RUSSIA	TUAPSE	TUAPSE	GOST 2477	RUTUA
RUSSIA	TUAPSE	TUAPSE	GOST 2477	RUTUB
TURKMENISTAN	ALADJA	KARAGEL	GOST 2477	TMALK
TURKMENISTAN	OKAREM	OKAREM	GOST 2477	TMOKT
UKRAINE	ODESSA	ODESSA OIL TERMINAL	GOST 2477	UAODT
UKRAINE	THEODOSIA	THEODOSIA	GOST 2477	UATHT
UKRAINE	YUZHNY	MARINE OIL TERMINAL "PIVDENNIY"	GOST 2477	UAYZM
UZBEKISTAN	BUKHARA	BUKHARA OIL REFINERY	GOST 2477	UZBKR
UZBEKISTAN	FERGANA	FERGANA OIL REFINERY	GOST 2477	UZFGR

GOST 6370

KAZAKHSTAN	AKTAU	KAZTRANSOIL	GOST 6370	KZAKK
LITHUANIA	BUTINGE	BUTINGE	GOST 6370	LTBUB
RUSSIA	DE-KASTRI	DE-KASTRI TERMINAL	GOST 6370	RUDKD
RUSSIA	DE-KASTRI	DE-KASTRI TERMINAL	GOST 6370	RUDKK

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
RUSSIA	KANDALAKSHA	VITINO	GOST 6370	RUKLV
RUSSIA	KANDALAKSHA	VITINO	GOST 6370	RUKLT
RUSSIA	KROTOVKA	KROTOVKA ST.	GOST 6370	RUKTK
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	GOST 6370	RUNOA
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	GOST 6370	RUNOB
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	GOST 6370	RUNOC
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	GOST 6370	RUNOA
RUSSIA	NOVOROSSIYSK	CPC-R TERMINAL	GOST 6370	RUNOB
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 6370	RUNOE
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 6370	RUNOF
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 6370	RUNOG
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 6370	RUNOH
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 6370	RUNOI
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 6370	RUNOJ
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 6370	RUNOK
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 6370	RUNOL
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 6370	RUNOM
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 6370	RUNON
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	GOST 6370	RUNOO
RUSSIA	NOVOSERGIEVSKAYA	NOVOSERGIEVSKAYA ST.	GOST 6370	RUNSN
RUSSIA	OKRUZHNOE ARIA - OKHOTSK	OKRUZHNOE - SAKHALIN	GOST 6370	RUOAA
RUSSIA	OKRUZHNOE ARIA	OKRUZHNOE - SAKHALIN	GOST 6370	RUOAB
RUSSIA	PORT KAVKAZ	KERCH STRAIGHT	GOST 6370	RUPKA
RUSSIA	PORT KAVKAZ	KERCH STRAIGHT	GOST 6370	RUPKB
RUSSIA	PRIMORSK	PRIMORSK	GOST 6370	RUPRA
RUSSIA	PRIMORSK	PRIMORSK	GOST 6370	RUPRB
RUSSIA	PRIMORSK	SMNP PRIMORSK	GOST 6370	RUPRC
RUSSIA	TUAPSE	TUAPSE	GOST 6370	RUTUA

COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
RUSSIA	TUAPSE	TUAPSE	GOST 6370	RUTUB
TURKMENISTAN	ALADJA	KARAGEL	GOST 6370	TMALK
TURKMENISTAN	OKAREM	OKAREM	GOST 6370	TMOKT
UKRAINE	ODESSA	ODESSA OIL TERMINAL	GOST 6370	UAODT
UKRAINE	THEODOSIA	THEODOSIA	GOST 6370	UATHT
UKRAINE	YUZHNY	MARINE OIL TERMINAL "PIVDENNIY"	GOST 6370	UAYZM
UZBEKISTAN	BUKHARA	BUKHARA OIL REFINERY	GOST 6370	UZBKR
UZBEKISTAN	FERGANA	FERGANA OIL REFINERY	GOST 6370	UZFGP

IP 53

IRELAND	BANTRY BAY	CONOCOPHILLIPS BANTRY TERMINALS	IP 53	IEBBC
IRELAND	WHITEGATE	CONOCOPHILLIPS WHITEGATE REFINERY	IP 53	IEWGC
UNITED KINGDOM	GLASGOW	FINNART	IP 53	GBGGF
UNITED KINGDOM	HOUD POINT	HOUD POINT	IP 53	GBHPT

IP 356

IRELAND	BANTRY BAY	CONOCOPHILLIPS BANTRY TERMINALS	IP 356	IEBBC
IRELAND	WHITEGATE	CONOCOPHILLIPS WHITEGATE REFINERY	IP 356	IEWGC
UNITED KINGDOM	OFF SHORE	BERYL	IP 356	GBBLO

IP 358

INDIA	MUMBAI	ONGC	IP 358	INMUO
IRAN	SOROOSH	IOOC	IP 358	IRSRI

IP 359

UNITED KINGDOM	LIVERPOOL BAY	LIVERPOOL BAY OSI	IP 359	GBLPO
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COUNTRY	PORT	TERMINAL	TESTS METHODS	CODE
IP 386				
UNITED KINGDOM	FAWLEY	ESSO FAWLEY	IP 386	GBFWE
UNITED KINGDOM	FLOTTA	FLOTTA	IP 386	GBFLT
UNITED KINGDOM	GLASGOW	FINNART	IP 386	GBGGF
UNITED KINGDOM	HOUND POINT	HOUND POINT	IP 386	GBHPT
UNITED KINGDOM	TETNEY	TETNEY (HUMBER ESTUARY)	IP 386	GBHMB
UNITED KINGDOM	IMMINGHAM	APT	IP 386	GBIMA
UNITED KINGDOM	LIVERPOOL BAY	LVERPOOL BAY OSI	IP 386	GBLPO
UNITED KINGDOM	NIGG BAY	NIGG BAY	IP 386	GBNBT
UNITED KINGDOM	OFF SHORE	APOLLO SPIRIT FSO	IP 386	GBOSS
UNITED KINGDOM	PEMPROKE	CHEVRON	IP 386	GBPBC
UNITED KINGDOM	SULLOM VOE	SULLOM VOE	IP 386	GBSVT
UNITED KINGDOM	TEESIDE	CONOCOPHILLIPS	IP 386	GBTSC
UNITED KINGDOM	TRANMERE	SHELL TRANMERE	IP 386	GBTMS

IP 483

SPAIN	BILBAO	PETRONOR (REPSOL)	IP 483	ESBIP
UNITED KINGDOM	TRANMERE	SHELL TRANMERE	IP 483	GBTMS

ISO 3733

SPAIN	LA CORUÑA	REPSOL	ISO 3733	ESLCR
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SAMPLE

SOURCE

COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
SHIP'S CARGO TANKS COMPOSITE SAMPLE				
BANGLADESH	CHITTAGONG	EASTERN REFINERY LTD.	C	BDCHE
BRAZIL	ANGRA DOS REIS	TEBIG	C	BRART
BRAZIL	CAMPOS BASIN	FPSO P-32	C	BRSBD
BRAZIL	CAMPOS BASIN	FPSO P-33	C	BRSBE
BRAZIL	CAMPOS BASIN	FPSO P-35	C	BRSBF
BRAZIL	CAMPOS BASIN	FPSO P-47	C	BRSBG
BULGARIA	BOURGAS	ROSENETZ OIL TERMINAL	C	BGBGR
CANADA	COME-BY-CHANCE, NF	NORTH ATLANTIC REFINING	C	CACCR
CANADA	POINT TUPPER, NS	NUSTAR ENERGY LP	C	CAPTN
CHILE	QUINTERO	ENAP ACONCAGUA MONOBOUY	C	CLQUE
COTE D'IVOIRE	ABIDJAN	FPSO	C	CIAJF
CROATIA	OMISALJ	JADRANSKI NAFTAOVOD	C	HROJJ
EGYPT	ZAAFARANA	ZAFCO	C	EGZFZ
GERMANY	BRUNSBÜTTEL	TOTAL REFINERY	C	DEBBT
GERMANY	HAMBURG	SHELL REFINERY	C	DEHGS
GERMANY	WILHELMSHAVEN	WRG REFINERY	C	DEWHR
GHANA	PORT OF SALTPOND - OFFSHORE	SALTPOND TERMINAL	C	GHOSS
GREECE	AGIOI THEODOROI	MOTOR OIL REFINERY	C	GRATM
GREECE	ASPROPYRGOS	HELENIC PETROLEUM ASPROPYRGOS REFINERY	C	GRASH
EQUATORIAL GUINEA	BATA	CEIBA TERMINAL (FPSO OFFS)	C	GBTC
ITALY	TERMOLI	TOTAL OFF SHORE PLANT	C	ITTMT
JAPAN	CHITA	IDEMITSU AICHI	C	JPCTA
JAPAN	KASHIMA	KASHIMA OIL	C	JPKMO
JAPAN	KAWASAKI	TONENGENERAL KAWASAKI	C	JPKWK
JAPAN	KIN-NAKAGUSUKU	NANSEI SEKIYU	C	JPKNN
JAPAN	SAKAI	TONENGENERAL SAKAI	C	JPSKT

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
JAPAN	SHIMOTSU	TONENGENERAL WAKAYAMA	C	JPSMT
KOREA	DAESAN	HYUNDAI OILBANK	C	KRDSH
KOREA	DAESAN	KOREA NATIONAL OIL CORPORATION	C	KRDSK
KOREA	YOSU	GS CALTEX CORPOATION	C	KRYSG
KOREA	YOSU	KOREA NATIONAL OIL CORPORATION	C	KRYSK
MOROCCO	MOHAMMEDIA	MOHAMMEDIA TERMINAL	C	MAMHT
NETHERLANDS	FLUSHING	TOTAL REFINERY	C	NLFST
NETHERLANDS	ROTTERDAM / EUROPOORT	KUWAIT PETROLEUM EUROPOORT	C	NLRDK
NIGERIA	OKONO	OKONO	C	NGOKT
NORWAY	BALDER	ESSO	C	NOBLE
NORWAY	BERGEN	STATOIL MONGSTAD	C	NOBNS
PERU	CALLAO	REFINERIA CONCHÁN	C	PECLA
PERU	CALLAO	REFINERIA LA PAMPILLA	C	PECLB
PERU	TALARA	PETROPERU TERMINAL TALARA	C	PETLP
PHILIPPINES	BATAAN	PETRON BATAAN REFINERY	C	PHBTP
PHILIPPINES	PALAWAN	FPSO RUBICON INTREPID	C	PHPWA
PHILIPPINES	PALAWAN	MATINLOC PLATFORM	C	PHPWC
PHILIPPINES	PALAWAN	NIDO PLATFORM	C	PHPWD
ROMANIA	CONSTANTZA	OIL TERMINAL	C	ROCSO
RUSSIA	KANDALAKSHA	VITINO	C	RUKLV
RUSSIA	KANDALAKSHA	VITINO	C	RUKLT
RUSSIA	PORT KAVKAZ	KERCH STRAIGHT	C	RUPKA
RUSSIA	PORT KAVKAZ	KERCH STRAIGHT	C	RUPKB
RUSSIA	VITYAZ ARIA	VITYAZ	C	RUVAA
RUSSIA	VITYAZ ARIA	VITYAZ	C	RUVAB
SINGAPORE	PULAU BUKOM	SHELL BUKOM	C	SGSGB
SINGAPORE	PULAU BUKOM	SHELL BUKOM SBM	C	SGSGS

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
SPAIN	ALGECIRAS	CEPSA	C	ESAGC
SPAIN	CARTAGENA	REPSOL	C	ESCGR
SPAIN	CASTELLON	BP OIL	C	ESCSB
SPAIN	LA CORUÑA	REPSOL	C	ESLCR
SPAIN	HUELVA	CEPSA	C	ESHVC
SPAIN	PUERTOS DE TENERIFE (SANTA CRUZ DE TENERIFE)	CEPSA	C	ESSCC
SPAIN	TARRAGONA	ASESA	C	ESTGA
SPAIN	TARRAGONA	REPSOL	C	ESTGR
SWEDEN	GOTHENBURG	PREEM	C	SEGTP
SWEDEN	GOTHENBURG	SHELL	C	SEGTS
TAIWAN	KAOHSIUNG	KAOHSIUNG	C	TWKST
TAIWAN	MAILIAO	MAILIAO	C	TWMLT
TAIWAN	SHA-LUNG	SHA-LUNG	C	TWSLT
TANZANIA	DAR ES SALAAM	TAZAMA	C	TZDST
THAILAND	MAPTAPHUT	PTT AR BRANCH 2 (REFINERY)	C	THMTP
THAILAND	MAPTAPHUT	STAR PETROLEUM	C	THMTS
THAILAND	SRIRACHA	PTT SEA BERTH	C	THPTS
THAILAND	RAYONG	IRPC	C	THRYI
THAILAND	SRIRACHA	THAI OIL SBM 1-2 &CBM	C	THSRT
THAILAND	KOH SI CHANG TPP	TPP	C	THTPP
TUNISIA	BIZERTE	STIR	C	TNBZS
TURKEY	ALIAGA-IZMIR	TUPRAS	C	TRAIT
TURKEY	TUTUNCIFILIK-IZMIT	TUPRAS	C	TRTUT
UNITED STATES	BLAINE, WA	BP	C	USBLB
UNITED STATES	CARSON, CA	KINDER MORGAN	C	USCSK
UNITED STATES	CHERRY POINT, WA	BP OIL	C	USCHB
UNITED STATES	CONVENT, LA	MOTIVA	C	USCNM

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
UNITED STATES	CORPUS CHRISTI, TX	FLINT HILLS INGLESIDE	C	USCCI
UNITED STATES	CORPUS CHRISTI, TX	FLINT HILLS WEST	C	USCCE
UNITED STATES	CORPUS CHRISTI, TX	MAGELLAN	C	USCCM
UNITED STATES	CORPUS CHRISTI, TX	NUSTAR NORTH BEACH TERMINAL	C	USCCN
UNITED STATES	CORPUS CHRISTI, TX	TRIGEANT	C	USCCT
UNITED STATES	CORPUS CHRISTI, TX	VALERO AVERY POINT	C	USCCV
UNITED STATES	CORPUS CHRISTI, TX	VALERO TULE LAKE	C	USCCL
UNITED STATES	FORT MIFFLIN, PA	SUN	C	USFMS
UNITED STATES	FREEPORT, TX	CONOCOPHILLIPS	C	USFPC
UNITED STATES	GARYVILLE, LA	MARATHON	C	USGVM
UNITED STATES	HOG ISLAND, PA	SUN OIL	C	USHIS
UNITED STATES	HOUSTON, TX	HOUSTON REFINING	C	USHTR
UNITED STATES	HOUSTON, TX	MAGELLAN MIDSTREAM	C	USHTM
UNITED STATES	HOUSTON, TX	PASADENA REFINING	C	USHTP
UNITED STATES	HOUSTON, TX	VALERO	C	USHTV
UNITED STATES	KROTZ SPRINGS, LA	VALERO	C	USKSV
UNITED STATES	LINDEN, NJ	CONOCOPHILLIPS - BAYWAY REFINERY	C	USLDC
UNITED STATES	LOS ANGELES, CA	EXXONMOBIL	C	USLAE
UNITED STATES	LOS ANGELES, CA	PACIFIC TERMINALS	C	USLAP
UNITED STATES	LOS ANGELES, CA	VALERO	C	USLAV
UNITED STATES	MANTUA, NJ	CITGO	C	USMTC
UNITED STATES	MARCUS HOOK, PA	SUN	C	USMHC
UNITED STATES	MARTINEZ, CA	ST SERVICES	C	USMZS
UNITED STATES	MARTINEZ, CA	TESORO	C	USMZT
UNITED STATES	PERTH AMBOY, NJ	CHEVRON TEXACO	C	USPEC
UNITED STATES	PORT ARTHUR, TX	VALERO	C	USPAV
UNITED STATES	PORT READING, NJ	HESS CORPORATION	C	USPRH

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
UNITED STATES	RODEO, CA	CONOCOPHILLIPS	C	USRDC
UNITED STATES	SANTA FE SPRING, CA	POWERINE OIL	C	USSTP
UNITED STATES	TRAINER, PA	CONOCOPHILLIPS	C	USTRC
UNITED STATES	WESTVILLE, NJ	COASTAL	C	USWVC
UNITED STATES	WILMINGTON, CA	FLETCHER OIL	C	USWNF
SPAIN	BILBAO	PETRONOR (REPSOL)	C/I	ESBIP

AUTOMATIC INLINE SAMPLE

ANGOLA	CABINDA	KUITO	I	AOCBK
ANGOLA	CABINDA	MALONGO	I	AOCBM
ANGOLA	CABINDA	MALONGO	I	AOCBA
ANGOLA	SOYO	DALIA CRUDE OIL	I	AOSOD
ANGOLA	SOYO	GIRASSOL FPSO	I	AOSOG
ANGOLA	SOYO	GREATER PLUTONIO	I	AOSOA
ANGOLA	SOYO	KIZOMBA A	I	AOSOK
ANGOLA	SOYO	KIZOMBA B	I	AOSOB
ANGOLA	SOYO	KIZOMBA C	I	AOSOC
ANGOLA	SOYO	PALANCA	I	AOSOP
ANGOLA	SOYO	SAXI BATUQUE	I	AOSOS
ANGOLA	SOYO	XIKOMBA	I	AOSOX
ARGENTINA	BAHIA BLANCA	OIL TANKING	I	ARBHO
ARGENTINA	CALETA CORDOVA	TERMAP'S	I	ARCCB
ARGENTINA	CALETA OLIVIA	TERMAP'S	I	ARCOT
ARGENTINA	PUNTA LOYOLA	PUNTA LOYOLA	I	ARPLL
ARGENTINA	TIERRA DEL FUEGO	TOTAL AUSTRAL	I	ARTFT
AUSTRALIA	BAYU UN DAN	FSO LIBERDADE, BAYU UN DAN	I	AUBUF
AUSTRALIA	COOPER BASIN	PORT BONYTHON	I	AUCBP

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
AUSTRALIA	COOPER BASIN CONDENSATE	PORT BONYTHON	I	AUCBB
AUSTRALIA	COSSACK	FPSO	I	AUCKF
AUSTRALIA	JABIRU	FPSO	I	AUJBF
AUSTRALIA	LAMINARIA	NORTHERN ENDEAVOUR	I	AULMN
AUSTRALIA	MUTINEER - EXETER	MODEC VENTURE 11	I	AUMEM
AUSTRALIA	DAMPIER - STAG	FPSO DAMPIER SPIRIT	I	AUSTD
AUSTRALIA	WANDOO	WANDOO MARINE TERMINAL	I	AUWDM
AUSTRALIA	WOOLLYBUTT	FPSO FOUR VANGUARD	I	AUWLF
AUSTRALIA	WORRIOR (COOPER BASIN)	PORT BONYTHON	I	AUWRB
BRAZIL	CAMPOS BASIN	FPSO ESPIRITO SANTO	I	BR5BA
BRAZIL	CAMPOS BASIN	FPSO FLUMINENSE	I	BR5BB
BRAZIL	CAMPOS BASIN	FPSO FRADE	I	BR5BC
BRAZIL	CAMPOS BASIN	FPSO P-50	I	BR5BH
BRAZIL	CAMPOS BASIN	FPSO POLVO	I	BR5BI
BRUNEI	SERIA	SERIA CRUDE OIL TERMINAL	I	BNSRC
CAMEROON	EBOME MARINE	EBOME MARINE	I	CMEME
CAMEROON	KRIBI	KOME KRIBI 1 MARINE	I	CMKKK
CAMEROON	MOUDI	MOUDI MARINE	I	CMMUM
CANADA	ARNOLD'S COVE, NF	IMTT	I	CAACI
CANADA	DARTMOUTH, NS	IMPERIAL OIL	I	CADMI
CANADA	SAINT JOHN, NB	IRVING OIL (CANAPORT TERMINAL)	I	CASJI
CANADA	BURNABY, BC	KINDER MORGAN WESTRIDGE	I	CABRK
COLOMBIA	COVEÑAS	ECOPETROL ODC	I	COCOE
COLOMBIA	COVEÑAS	OCENSA	I	COCOO
CONGO	AZURITE	FDPSO AZURITE	I	CGAZD
CONGO	DJENO	DJENO SBM	I	CGDJS
EGYPT	AIN SUKHNA	AIN SUKHNA	I	EGASA

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
EGYPT	SIDI KERIR	SIDI KERIR	I	EGSKS
FRANCE	DONGES	TOTAL RAFFINERY OF DONGES	I	FRDGT
FRANCE	DUNKIRK (DUNKERQUE)	TOTAL RAFFINERY OF FLANDRES	I	FRDKT
FRANCE	FOS-SUR-MER	ESSO	I	FRFSE
FRANCE	FOS-SUR-MER	GIE CRAU	I	FRFSG
FRANCE	FOS-SUR-MER	SOUTH EUROPEAN PIPELINE	I	FRFSS
FRANCE	LE HAVRE	COMPANIE INDUSTRIELLE MARITIME	I	FRLHC
FRANCE	LE HAVRE	COMPANIE INDUSTRIELLE MARITIME	I	FRLHA
GABON	PORT-GENTIL	CAP LOPEZ	I	GAPGC
GERMANY	BRUNSBÜTTEL	SHELL REFINERY	I	DEBBS
GERMANY	HAMBURG	HOLBORN REFINERY	I	DEHGR
GERMANY	ROSTOCK	GOR	I	DERSG
GERMANY	WILHELMSHAVEN	NOW TERMINAL	I	DEWHT
GREECE	PRINOS OFF SHORE	PRINOS TERMINAL	I	GRPRT
EQUATORIAL GUINEA	MALABO	ZAFIRO TERMINAL (FPSO OFFS)	I	GQMBZ
INDIA	KG D6	FPSO DHIRUBHAI	I	INKGF
INDONESIA	ANOA NATUNA	ANOA MARINE TERMINAL	I	IDANM
INDONESIA	ARDJUNA	ARDJUNA MARINE TERMINAL	I	IDAJM
INDONESIA	BEKAPAI	BEKAPAI TERMINAL	I	IDBPM
INDONESIA	BELANAK	BELANAK MARINE TERMINAL	I	IDBKM
INDONESIA	BELIDA	BELIDA MARINE TERMINAL	I	IDBDM
INDONESIA	BONTANG	SANTAN TERMINAL	I	IDBTS
INDONESIA	BUNYU	BUNYU TERMINAL	I	IDBUT
INDONESIA	CAMAR	CAMAR MARINE TERMINAL	I	IDCMM
INDONESIA	CINTA	CINTA MARINE TYERMINAL	I	IDCNM
INDONESIA	DUMAI	CHEVRON TERMINAL	I	IDDUC
INDONESIA	EXPAN	EXPAN TERMINAL	I	IDEXT

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
INDONESIA	KAKAP	KAKAP NATUNA MARINE TERMINAL	I	IDKKM
INDONESIA	KAKAP	KAKAP NATUNA MARINE TERMINAL	I	IDKKM
INDONESIA	LALANG	LALANG	I	IDLGL
INDONESIA	LAWI LAWI	LAWI LAWI TERMINAL	I	IDLLT
INDONESIA	OYONG	OYONG TERMINAL	I	IDOYT
INDONESIA	JAMBI -PETROCHINA	PETROCHINA	I	IDPCP
INDONESIA	POLENG	POLENG TERMINAL	I	IDPLT
INDONESIA	SANTAN	SANTAN TERMINAL	I	IDSTT
INDONESIA	SENIPAH	SENIPAH TERMINAL	I	IDSPT
INDONESIA	TIAKA	TIAKA	I	IDTKT
INDONESIA	TUBAN	TUBAN MARINE TERMINAL	I	IDTBM
INDONESIA	UDANG NATUNA	UDANG MARINE TERMINAL	I	IDUDM
INDONESIA	WIDURI	WIDURI MARINE TERMINAL	I	IDWDW
IRAN	BANDAR TAHERI	NIGC	I	IRBTN
IRAN	KHARG ISLAND	NIOC	I	IRKIA
IRAN	KHARG ISLAND	NIOC	I	IRKIB
IRAN	KHARG ISLAND	NIOC	I	IRKIC
IRAN	KHARG ISLAND	NIOC	I	IRKID
IRAN	KHARG ISLAND	NIOC	I	IRKIE
IRAN	KHARG ISLAND	NIOC	I	IRKIF
IRAN	KHARG ISLAND	NIOC	I	IRKIG
IRAN	KHARG ISLAND	NIOC	I	IRKIH
IRAN	LAVAN ISLAND	IOOC	I	IRLIA
IRAN	LAVAN ISLAND	IOOC	I	IRLIB
IRAN	SOROOSH	IOOC	I	IRSRI
IRAQ	BASRAH OFF-SHORE	BASRAH OIL TERMINAL (ABOT)	I	IQBSA
IRAQ	BASRAH OFF-SHORE	KHOR AL AMAYA OIL TERMINAL (KAAOT)	I	IQBSK

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
IRELAND	BANTRY BAY	CONOCOPHILLIPS BANTRY TERMINALS	I	IEBBC
ITALY	AUGUSTA	ESSO	I	ITAGE
ITALY	FALCONARA MARITTIMA	API	I	ITFAA
ITALY	FIUMICINO	ERG-TOTAL	I	ITFCE
ITALY	GELA	ENI	I	ITGLE
ITALY	GENOA	PORTO PETROLI	I	ITGNP
ITALY	LIVORNO	ENI	I	ITLVE
ITALY	MILAZZO	R.A.M.	I	ITMZR
ITALY	PORTO MARGHERA	ENI - SAN LEONARDO	I	ITVNE
ITALY	PRIOLO GARGALLO	ISAB NORTH SITE (MELILLI OIL TERMINAL)	I	ITPRI
ITALY	SANTA PANAGIA	ISAB SOUTH SITE	I	ITSPI
ITALY	SARROCH	SARAS	I	ITSRS
ITALY	TRIESTE	S.I.O.T.	I	ITTSS
ITALY	VADO LIGURE	SARPOM	I	ITVLS
JAPAN	CHIBA	COSMO OIL CHIBA	I	JPCBC
JAPAN	CHIBA	FUJI OIL SODEGAURA	I	JPCBF
JAPAN	CHIBA	IDEMITSU CHIBA	I	JPCBI
JAPAN	CHIBA	KYOKUTO OIL	I	JPCBK
JAPAN	IWAKUNI	NIPPON OIL MARIFU	I	JPIWN
JAPAN	KANOKAWA	KANOKAWA TERMINAL	I	JPKKT
JAPAN	KAWASAKI	TOA OIL KEIHIN	I	JPKWT
JAPAN	KIKUMA	TAIYO OIL SHIKOKU	I	JPKIT
JAPAN	MIZUSHIMA	JAPAN-ENERGY MIZUSHIMA	I	JPMZJ
JAPAN	MIZUSHIMA	NIPPON OIL MIZUSHIMA	I	JPMZN
JAPAN	MURORAN	NIPPON OIL MURORAN	I	JPMUN
JAPAN	OITA	NIPPON OIL OITA	I	JPOTN
JAPAN	ONAHAMA	ONAHAMA OIL	I	JPOHO

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
JAPAN	OWASE	TOHO OIL	I	JPOWT
JAPAN	SAKAI	COSMO OIL SAKAI	I	JPSKC
JAPAN	SAKAI	NIPPON OIL OSAKA	I	JPSKN
JAPAN	SAKAIDE	COSMO OIL SAKAIDE	I	JPSDC
JAPAN	SENDAI	NIPPON OIL SENDAI	I	JPSNN
JAPAN	TOKUYAMA	IDEMITSU TOKUYAM	I	JPTMI
JAPAN	TOMAKOMAI	IDEMITSU HOKKAIDO	I	JPTKI
JAPAN	TOYAMA	NIHONNKAI OIL TOYAMA	I	JPTYN
JAPAN	UBE	SEIBU OIL	I	JPUBS
JAPAN	YOKKAICHI	COSMO OIL YOKKAICHI	I	JPYKC
JAPAN	YOKKAICHI	SHOWA-YOKKAICHI	I	JPYKS
JAPAN	YOKOHAMA	NIPPON OIL YOKOHAMA	I	JPYHN
KOREA	ULSAN	SK ENERGY CO LTD	I	KRUSS
LIBYA	ALJURF	FARWA F.P.S.O.	I	LYAJF
LIBYA	BOURI	BOURI F.S.O.	I	LYBOB
LIBYA	ES SIDER	WAHA OIL COMPANY	I	LYESW
LIBYA	MARSA EL BREGA	SIRTE OIL COMPANY	I	LYMBS
LIBYA	MARSA EL BREGA	SIRTE OIL COMPANY (CONDENSATE)	I	LYMBC
LIBYA	MARSA EL HARIGA	ARABIAN GULF OIL CO. (A.G.O.C.O.)	I	LYMHA
LIBYA	RAS LANUF	HAROUGE OIL OPERATIONS (AMNA)	I	LYRLA
LIBYA	RAS LANUF	HAROUGE OIL OPERATIONS (MESLA)	I	LYRLB
LIBYA	RAS LANUF	HAROUGE OIL OPERATIONS (SIRTICA)	I	LYRLC
LIBYA	ZAWIA	AKAKUS OIL OPERATIONS	I	LYZWA
LIBYA	ZUEITINA	ZUEITINA OIL COMPANY	I	LYZTA
LIBYA	ZUEITINA	ZUEITINA OIL COMPANY	I	LYZTB
LIBYA	ZUEITINA	ZUEITINA OIL COMPANY	I	LYZTC
MALAYSIA	ABU	ABU MARINE TERMINAL	I	MYABM

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
MALAYSIA	ANGSI	ANGSI MARINE TERMINAL	I	MYANM
MALAYSIA	BINTULU	BINTULU CRUDE OIL TERMINAL	I	MYBTT
MALAYSIA	BINTULU	BINTULU CRUDE OIL TERMINAL	I	MYBTC
MALAYSIA	BINTULU	KIDURONG MARINE TERMINAL	I	MYBTK
MALAYSIA	BUNGA RAYA	BUNGA RAYA MARINE TERMINAL	I	MYBRB
MALAYSIA	CENDOR	CENDOR MARINE TERMINAL	I	MYCMM
MALAYSIA	DULANG	DULANG MARINE TERMINAL	I	MYDMM
MALAYSIA	KERTEH	TERENGGANU CONDENSATE TERMINAL	I	MYKTA
MALAYSIA	KERTEH	TERENGGANU CRUDE OIL TERMINAL	I	MYKTB
MALAYSIA	LABUAN	KIKEH MARINE TERMINAL	I	MYLBK
MALAYSIA	LABUAN	LABUAN CRUDE OIL TERMINAL	I	MYLBL
MALAYSIA	MASA	MASA MARINE TERMINAL	I	MYMMM
MALAYSIA	MIRI	MIRI CRUDE OIL TERMINAL	I	MYMRM
MALAYSIA	PENARA	PENARA MARINE TERMINAL	I	MYPPM
MALAYSIA	PUTERI CAKERAWALA	PUTERI CAKERAWALA MARINE TERMINAL	I	MYPCP
MAURITANIA	OFF SHORE NOUAKCHOTT	CHINGUETTI	I	MRNKC
NETHERLANDS	ROTTERDAM / EUROPOORT	BP REFINERY EUROPOORT	I	NLRDA
NETHERLANDS	ROTTERDAM / EUROPOORT	MAASVLAKTE OLIE TERMINAL	I	NLRDM
NETHERLANDS	ROTTERDAM / EUROPOORT	MAATSCHAP EUROPOORT TERMINAL	I	NLRDE
NETHERLANDS	ROTTERDAM / EUROPOORT	SHELL NEDERLAND RAFFINADERIJ EUROPOORT	I	NLRDS
NETHERLANDS	ROTTERDAM / EUROPOORT	TEAM TERMINAL EUROPOORT	I	NLRDT
NEW ZEALAND	MARSDEN POINT	NEW ZEALAND REFINING CO. (NZRC)	I	NZMPN
NEW ZEALAND	WHANGAREI	NZ REFINING COMPANY	I	NZWGR
NIGERIA	ABO	ABO	I	NGABA
NIGERIA	AGBAMI	AGBAMI	I	NGAGA
NIGERIA	AMANDA	AMANDA	I	NGAMA
NIGERIA	ANTAN	ANTAN	I	NGANA

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
NIGERIA	BONGA	BONGA	I	NGBGB
NIGERIA	BONNY	BONNY	I	NGBNT
NIGERIA	EA FIELD	EA	I	NGEAT
NIGERIA	ERHA	ERHA	I	NGERT
NIGERIA	IMA	IMA	I	NGIMT
NIGERIA	ODUDU	ODUDU	I	NGODT
NIGERIA	OKWORI	OKWORI	I	NGOWT
NIGERIA	PENNINGTON	PENNINGTON	I	NGPNT
NIGERIA	QUA IBOE	QUA IBOE	I	NGQIT
NIGERIA	UKPOKITI	UKPOKITI	I	NGUKT
NIGERIA	YOHO	YOHO	I	NGYHT
NORWAY	JOTUN	ESSO	I	NOJOE
NORWAY	MONGSTAD	STATOILHYDRO MONGSTAD	I	NOMGS
NORWAY	STURE	NORSK HYDRO	I	NOSTN
NORWAY	STURE	STATOILHYDRO STURE	I	NOSTS
NORWAY	TONSBERG	SLAGENTANGEN	I	NOTBS
OMAN	MINA AL FAHAL	PETROLEUM DEVELOPMENT OMAN	I	OMMFP
PAPUA NEW GUINEA	KUMUL	KUMUL MARINE TERMINAL	I	PGGPK
PHILIPPINES	BATANGAS	SHELL TABANGAO REFINERY	I	PHBGS
PHILIPPINES	PALAWAN	MALAMPAYA PLATFORM	I	PHPWB
POLAND	GDANSK	PORT POLNOCNY	I	PLGDP
PORTUGAL	LEIXÕES	PETROGAL	I	PTLXP
PORTUGAL	SINES	PETROGAL	I	PTSSP
PORTUGAL	SINES	PETROGAL	I	PTSSL
QATAR	AL SHAHEEN	MAERSK OIL QATAR - FSO	I	QAASM
QATAR	HALUL ISLAND	QATAR PETROLEUM	I	QAHIQ
QATAR	MESAI EED	QATAR PETROLEUM	I	QAMSO

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
RUSSIA	DE-KASTRI	DE-KASTRI TERMINAL	I	RUDKT
RUSSIA	NOVOROSSIYSK	CPC-R TERMINAL	I	RUNOB
RUSSIA	NOVOROSSIYSK	SHEKCHARIS	I	RUNOO
RUSSIA	PRIMORSK	PRIMORSK	I	RUPRA
RUSSIA	PRIMORSK	PRIMORSK	I	RUPRB
RUSSIA	PRIMORSK	SMNP PRIMORSK	I	RUPRC
RUSSIA	TUAPSE	TUAPSE	I	RUTUA
RUSSIA	TUAPSE	TUAPSE	I	RUTUB
SAUDI ARABIA	JU'AYMAH	SAUDI ARAMCO	I	SAJUS
SAUDI ARABIA	RAS TANURA	SAUDI ARAMCO	I	SARTA
SAUDI ARABIA	YANBU	SAUDI ARAMCO	I	SAYBS
SINGAPORE	JURONG (MOBIL)	EXXONMOBIL JURONG	I	SGSGJ
SINGAPORE	SINGAPORE PORT	EXXONMOBIL OVL2	I	SGSGO
SINGAPORE	PULAU AYER CHAWAN (ESSO)	EXXONMOBIL PAC	I	SGSGP
SINGAPORE	JURONG ISLAND (SRC)	SRC JURONG ISLAND	I	SGSGI
SINGAPORE	SINGAPORE PORT	SRC OVL1	I	SGSGR
SOUTH AFRICA	DURBAN	SAPREF(SOUTH TANK FARM-STF)	I	ZADBS
SOUTH AFRICA	MOSEL BAY	PETROSA	I	ZABMP
SOUTH AFRICA	SALDANHA BAY	PETROSA	I	ZASBP
SOUTH AFRICA	DURBAN	NORTH TANK FARM	I	ZADNN
SOUTH AFRICA	DURBAN	SOUTH TANK FARM	I	ZADNS
SOUTH AFRICA	DURBAN	NARCOS	I	ZADNC
THAILAND	BENCHAMAS	FSO BENCHAMAS EXPLORER	I	THBCF
THAILAND	ERAWAN	ERAWAN GASFIELD	I	THEWG
THAILAND	JASMINE	JASMINE VENTURE MV7	I	THJSV
THAILAND	ERAWAN	ERAWAN GASFIELD	I	THPLE
THAILAND	PATTANI	PLFSO 'PATTANI SPIRIT'	I	THPNF

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
THAILAND	SRIRACHA	ESSO MBM	I	THSRE
THAILAND	TANTAWAN	FSO TANTAWAN EXPLORER	I	THTTF
TRINIDAD	GALEOTA POINT	BHP BILITON	I	TTGPH
TRINIDAD	GALEOTA POINT	BP TRINIDAD AND TOBAGO LLC	I	TTGPB
TUNISIA	ASHTART OFF SHORE	IFRIKIA II	I	TNASI
TUNISIA	LOUDNA OFF SHORE	LENDEN	I	TNOUL
TUNISIA	ZARZIS	MARETAP	I	TNZRM
TURKEY	CEYHAN	BOTAS TERMINAL	I	TRCYB
TURKEY	CEYHAN	CEYHAN MARINE TERMINAL (BTC PIPELINE)	I	TRCYM
UNITED ARAB EMIRATES	DAS ISLAND	ADMA OPCO	I	AEDIA
UNITED ARAB EMIRATES	FATEH	DUBAI PETROLEUM ESTABLISHMENT	I	AEFTD
UNITED ARAB EMIRATES	JEBEL DHANNA	ADCO	I	AEJDA
UNITED ARAB EMIRATES	ZIRKU ISLAND	ZADCO	I	AEZIZ
UNITED KINGDOM	OFF SHORE	BERYL	I	GBBLO
UNITED KINGDOM	FAWLEY	ESSO FAWLEY	I	GBFWE
UNITED KINGDOM	FLOTTA	FLOTTA	I	GBFLT
UNITED KINGDOM	HAMBLE	HAMBLE	I	GBHMA
UNITED KINGDOM	HOUND POINT	HOUND POINT	I	GBHPT
UNITED KINGDOM	IMMINGHAM	APT	I	GBIMA
UNITED KINGDOM	LIVERPOOL BAY	LIVERPOOL BAY OSI	I	GBLPO
UNITED KINGDOM	MILFORD HAVEN	MURCO	I	GBMHM
UNITED KINGDOM	OFF SHORE	APOLLO SPIRIT FSO	I	GBOSS
UNITED KINGDOM	PEMPROKE	CHEVRON	I	GBPBC
UNITED KINGDOM	SULLOM VOE	SULLOM VOE	I	GBSVT
UNITED KINGDOM	TEESIDE	CONOCOPHILLIPS	I	GBTSC
UNITED KINGDOM	TRANMERE	SHELL TRANMERE	I	GBTMS
UNITED STATES	ANACORTES, WA	SHELL OIL PRODUCTS US	I	USANS

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
UNITED STATES	ANACORTES, WA	TESORO	I	USANT
UNITED STATES	BATON ROUGE, LA	EXXONMOBIL	I	USBRE
UNITED STATES	BATON ROUGE, LA	EXXONMOBIL REFINERY	I	USBRR
UNITED STATES	BAYTOWN, TX	BAYTOWN REFINERY (EXXONMOBIL)	I	USBYR
UNITED STATES	BEAUMONT, TX	EXXONMOBIL	I	USBME
UNITED STATES	BEAUMONT, TX	OTTI	I	USBMO
UNITED STATES	BENICIA, CA	VALERO	I	USBNV
UNITED STATES	CARSON, CA	BP OIL	I	USCSB
UNITED STATES	CHALMETTE, LA	CHALMETTE REFINING	I	USCMR
UNITED STATES	CORPUS CHRISTI, TX	CITGO	I	USCCC
UNITED STATES	CORPUS CHRISTI, TX	FLINT HILLS EAST	I	USCCF
UNITED STATES	DEER PARK, TX	SHELL REFINERY	I	USDPS
UNITED STATES	DELAWARE CITY, DE	MOTIVA	I	USDCM
UNITED STATES	EL SEGUNDO, CA	CHEVRON TEXACO	I	USESC
UNITED STATES	FERNDALE, WA	CONOCOPHILLIPS	I	USFDC
UNITED STATES	FREEPORT, TX	TEPPCO SEAWAY	I	USFPT
UNITED STATES	HOUSTON, TX	HOUSTON FUEL OIL	I	USHTF
UNITED STATES	HOUSTON, TX	OIL TANKING	I	USHTO
UNITED STATES	LAKE CHARLES, LA	CITGO	I	USLCC
UNITED STATES	LAKE CHARLES, LA	CONOCOPHILLIPS	I	USLCP
UNITED STATES	LONG BEACH, CA	SHELL	I	USLBS
UNITED STATES	LOS ANGELES, CA	BP	I	USLAB
UNITED STATES	LOS ANGELES, CA	CHEVRONTEXACO	I	USLAT
UNITED STATES	LOS ANGELES, CA	CONOCOPHILLIPS	I	USLAC
UNITED STATES	LOS ANGELES, CA	KINDER MORGAN	I	USLAK
UNITED STATES	LOS ANGELES, CA	SHELL	I	USLAS
UNITED STATES	NEDERLAND, TX	CHEVRON TERMINAL	I	USNLC

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
UNITED STATES	NEDERLAND, TX	SUN	I	USNLS
UNITED STATES	OFF SHORE, LA	LOOP	I	USOLL
UNITED STATES	PAULSBORO, NJ	VALERO	I	USPBV
UNITED STATES	PORT ARTHUR, TX	TOTAL	I	USPAT
UNITED STATES	PORT NECHES, TX	MOTIVA	I	USPNM
UNITED STATES	PORTLAND, ME	PORTLAND PIPELINE	I	USPLP
UNITED STATES	RICHMOND, CA	CHEVRON TEXACO REFINERY	I	USRMC
UNITED STATES	SAN FRANCISCO, CA	SHELL	I	USSFS
UNITED STATES	SANTA FE SPRING, CA	GOLDEN WEST	I	USSTG
UNITED STATES	ST. JAMES, LA	CAPLINE	I	USSJC
UNITED STATES	ST. JAMES, LA	NUSTAR	I	USSJN
UNITED STATES	ST. JAMES, LA	SUGARLAND	I	USSJS
UNITED STATES	TEXAS CITY, TX	BP	I	USTCB
UNITED STATES	TEXAS CITY, TX	MARATHON (TEPPCO & BP DOCKS)	I	USTCM
UNITED STATES	TEXAS CITY, TX	TEPPCO	I	USTCT
UNITED STATES	TEXAS CITY, TX	VALERO (TEPPCO DOCKS & BP DOCKS)	I	USTCV
UNITED STATES	VALDEZ, AK	ALYESKA MARINE	I	USVZA
UNITED STATES	WILMINGTON, CA	KINDER MORGAN	I	USWNK
UNITED STATES	YORKTOWN	WESTERN REFINERY YORKTOWN	I	USYTW
VIET NAM	VUNG TAU	CHI LINH	I	VNVUC
VIET NAM	VUNG TAU	DAI HUNG FSO	I	VNVUD
VIET NAM	VUNG TAU	QUEENSWAY SU TU VANG FSO	I	VNVUQ
VIET NAM	VUNG TAU	RANG DONG MV17 FSO	I	VNVUR
VIET NAM	VUNG TAU	RONG DOI FSO	I	VNVUF
VIET NAM	VUNG TAU	RUBY PRINCESS	I	VNVUA
VIET NAM	VUNG TAU	SONG DOC PRIDE MV19	I	VNVUS
VIET NAM	VUNG TAU	THAIBINH VN FSO	I	VNVUP

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
VIET NAM	VUNG TAU	VIETSOVPETRO 01	I	VNVUV
YEMEN	ASH SHIHR	ASH SHIHR	I	YEASA
YEMEN	RAS ISA	SAFER	I	YERIS

LINE MANUAL SAMPLE

JAPAN	KIIRE	NIPPON OIL STORAGE KIIRE	L	JPKRN
NETHERLANDS	ROTTERDAM / EUROPOORT	BP REFINERY EUROPOORT	L	NLRDB
THAILAND	ARTHIT	BONGKOT TERMINAL	L	THARB
THAILAND	BONGKOT	BONGKOT TERMINAL	L	THBGT

SHIPBOARD SAMPLE

NEW ZEALAND	NEW PLYMOUTH	NEW PLYMOUTH	R	NZNPT
SWEDEN	BROFJORDEN	SCANRAFF	R	SEBJS
UNITED KINGDOM	CORYTON	PETROPLUS	R	GBCTP
UNITED KINGDOM	TETNEY	TETNEY (HUMBER ESTUARY)	R	GBHMB

SHORE TANKS SAMPLE

ALGERIA	ARZEW NEW PORT	SONATRACH RTO	S	DZAZB
ALGERIA	ARZEW NEW PORT	SONATRACH RTO	S	DZAZC
ALGERIA	ARZEW NEW PORT	SONATRACH RTO	S	DZAZD
ALGERIA	BEJAIA	SONATRACH RTE	S	DZBJA
ALGERIA	BEJAIA	SONATRACH RTE	S	DZBJB
ALGERIA	BEJAIA	SONATRACH RTE	S	DZBJC
ALGERIA	SKIKDA NEW PORT	SONATRACH RTE	S	DZSKA
ALGERIA	SKIKDA NEW PORT	SONATRACH RTE	S	DZSKB
ALGERIA	SKIKDA NEW PORT	SONATRACH RTE	S	DZSKC
ARGENTINA	CALETA CORDOBA	TERMAP'S	S	ARCCA

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
ARGENTINA	CALETA OLIVIA	TERMAP'S	S	ARCOA
ARGENTINA	PUERTO ROSALES	OIL TANKING EVITEM	S	ARPRO
ARGENTINA	PUNTA LOYOLA	PETROBRAS	S	ARPLP
ARGENTINA	RIO CULLEN	TOTAL AUSTRAL	S	ARRCT
ARGENTINA	SAN SEBASTIAN	CRUZ DEL SUR	S	ARSSC
ARGENTINA	TIERRA DEL FUEGO	CRUZ DEL SUR	S	ARTFC
ARUBA	COASTAL	COASTAL	S	AWCSC
ARUBA	SAN NICOLAS	COASTAL	S	AWSNC
AUSTRALIA	BARROW ISLAND	BARROW ISLAND	S	AUBIB
AUSTRALIA	NW-SHELF CONDENSATE	WITNELL BAY, DAMPIER	S	AUNSW
AUSTRALIA	THEVENARD	SALADIN MARINE TERMINAL	S	AUTHS
AUSTRALIA	VARANUS ISLAND	VARANUS ISLAND	S	AUVIA
AUSTRALIA	VARANUS ISLAND	VARANUS ISLAND	S	AUVIB
BAHAMAS	FREEPORT	SOUTH RIDING POINT	S	BSFPS
CAMEROON	CAPE LIMBOH	SONARA REFINERY	S	CMCLS
CAMEROON	KOLE	KOLE MARINE	S	CMKLM
CHILE	ARICA	TRANSREDES	S	CLART
CHILE	CALETA CLARENCIA	ENAP CLARENCIA	S	CLCLE
CHILE	SAN GREGORIO	ENAP GREGORIO	S	CLGRE
CHILE	SAN VICENTE	ENAP BIO BIO TERMINAL 'B'	S	CLSVE
CHINA	DALIAN	DALIAN XINGANG	S	CNDLD
CHINA	HAIKOU	HAINAN REFINERY	S	CNHKH
CHINA	HUIZHOU	GPC/SINOPEC & MBZ/CNOOC	S	CNHUG
CHINA	MAOMING	MAOMING REFINERY	S	CNMGR
CHINA	NINGBO	DAXIE SHIHUA	S	CNNBD
CHINA	NINGBO	SUANSHAN	S	CNNBS
CHINA	QINGDAO	SINOPEC	S	CNQDS

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
CHINA	QINGHUANGDAO	CAOFEIDIAN	S	CNQGQ
CHINA	QUANZHOU	FUJIAN REFINERY	S	CNQZF
CHINA	SHANGHAI	SHANGHAI	S	CNSHS
CHINA	SHENZHEN	SHENZHEN	S	CNSZS
CHINA	TIANJIN	TIANJIN	S	CNTIT
CHINA	ZHANJIANG PORT	ZHANJIANG	S	CNZGZ
CHINA	ZHOUSHAN	AOSHAN	S	CNZSA
CHINA	ZHOUSHAN	CEZI	S	CNZSC
COLOMBIA	MAMONAL	ECOPETROL	S	COMLE
COLOMBIA	TUMACO	ECOPETROL	S	COTUE
COTE D'IVOIRE	ABIDJAN	SIR II	S	CIAJS
DOMINICAN REPUBLIC	PALENQUE	CONV.BUOY MOORING (CBM)	S	DOPPC
ECUADOR	ESMERALDAS	BALAO	S	ECESB
ECUADOR	ESMERALDAS	OCF	S	ECESO
EGYPT	EAST ZEIT BAY	EAST ZEIT BAY	S	EGEZB
EGYPT	MERSA EL HAMRA	EL HAMRA	S	EGEHH
EGYPT	GEISUM	GEISUM	S	EGGSG
EGYPT	RAS BUDRAN	RAS BUDRAN	S	EGRBB
EGYPT	RAS GHARIB	RAS GHARIB	S	EGRGG
EGYPT	RAS SHUKHEIR	RAS SHUKHEIR	S	EGRSS
EGYPT	WADI FERIAN	WADI FERIAN	S	EGWFF
EGYPT	ZEIT BAY	ZEIT BAY	S	EGZBZ
GABON	ETAME	ETAME MARINE TERMINAL	S	GAETE
GABON	GAMBA	GAMBA TERMINAL	S	GAGMG
GABON	LIBREVILLE	REBOUE TERMINAL	S	GALVP
GABON	LUCINA	LUCINA TERMINAL	S	GALUT
GABON	OGUENDJO	OGUENDJO TERMINAL	S	GAOGT

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
GEORGIA	BATUMI	BATUMI OIL TERMINAL	S	GEBTT
GEORGIA	SUPSA	SUPSA TERMINAL	S	GESPT
GREECE	THESSALONIKI OFF S	EKO THESSALONIKI REFINERY	S	GRTHE
GUATEMALA	SANTO TOMAS DE CASTILLA	PIEDRAS NEGRAS	S	GTSTP
EQUATORIAL GUINEA	MALABO	PUNTA EUROPA	S	GQMBP
INDIA	CHENNAI	IOCL/CPCL	S	INCHI
INDIA	COCHIN (KOCHI)	KRL/BPCL	S	INCOK
INDIA	MANGALORE	MRPL	S	INMGM
INDIA	MUMBAI	HPCL/BPCL	S	INMUH
INDIA	RAVVA OILFIELD S.YANAM	CAIRN ENERGY	S	INRWC
INDIA	SIKKA	RELIANCE	S	INSKR
INDIA	VISAKHAPATNAM (VISAKH)	HPCL	S	INVSH
INDONESIA	BALONGAN	BALONGAN TERMINAL	S	IDBGT
INDONESIA	BLANG LANCANG	BLANG LANCANG TERMINAL	S	IDBLT
INDONESIA	KASIM (SORONG)	KASIM	S	IDKSK
IRAN	ASALUYEH	NIOC	S	IRASN
IRAN	SIRRI ISLAND	IOOC	S	IRSII
IRELAND	WHITEGATE	CONOCOPHILLIPS WHITEGATE REFINERY	S	IEWGC
KAZAKHSTAN	AKTAU	KAZTRANSOIL	S	KZAKK
KOREA	INCHEON	SK ENEREGY INCHEON COMPLEX	S	KRICS
KOREA	KEOJE ISLANDS	KOREA NATIONAL OIL CORPORATION	S	KRKIK
KOREA	ONSAN	KOREA NATIONAL OIL CORPORATION	S	KROSK
KOREA	ONSAN	S-OIL CORPORATION	S	KROSS
KUWAIT	MINA AL AHMADI	KUWAIT OIL COMPANY	S	KWMAA
KUWAIT	MINA AL AHMADI	KUWAIT OIL COMPANY	S	KWMAB
KUWAIT	MINA AL AHMADI	KUWAIT OIL COMPANY	S	KWMAC
KUWAIT	MINA AL ZOUR	SAUDI ARABIAN CHEVRON	S	KWMZS

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
LATVIA	VENTSPILS	VENTSPILS NAFTA	S	LVPV
LIBYA	MELLITAH	MELLITAH GAS	S	LYMTA
LIBYA	MELLITAH	MELLITAH GAS (CONDENSATE)	S	LYMTB
LITHUANIA	BUTINGE	BUTINGE	S	LTBUB
MYANMAR	YETAGUN FSO	YETAGUN MARINE TERMINAL	S	MMYTT
NETHERLANDS ANTILLES	BONAIR RINCON	BOPEC	S	ANBRA
NETHERLANDS ANTILLES	CURACAO, BULLENBAY	BULLEN BAY	S	ANCB
NETHERLANDS ANTILLES	CURACAO, WILLEMSTAD	ISLA REFINERIA	S	ANCVI
NETHERLANDS ANTILLES	ST EUSTATIUS	STATIA TERMINALS	S	ANSTT
NEW ZEALAND	NEW PLYMOUTH	NEWTON KING	S	NZPNK
NIGERIA	BRASS	BRASS RIVER	S	NGBRT
NIGERIA	ESCRAVOS	ESCRAVOS	S	NGEST
NIGERIA	FORCADOS	FORCADOS	S	NGFOT
PAKISTAN	KARACHI	PAK ARAB REFINERY LTD.	S	PKKRA
PAKISTAN	KARACHI	PAK ARAB REFINERY LTD.	S	PKKRB
PAKISTAN	KARACHI	PAK ARAB REFINERY LTD.	S	PKKRC
PAKISTAN	PORT QASIM	BOSICOR PAKISTAN LTD.	S	PKPQB
PANAMA	CHIRIQUI GRANDE	PETROTERMINAL DEPANAMA	S	PACGP
PANAMA	PUERTO ARMUELLES	PETROTERMINAL DEPANAMA	S	PAPAP
PERU	BAYOVAR	PETROPERU TERMINAL BAYOVAR	S	PEBYP
QATAR	RAS LAFFAN	RAS GAS	S	QARLA
QATAR	RAS LAFFAN	RAS GAS	S	QARLB
QATAR	RAS LAFFAN	RAS GAS	S	QARLC
QATAR	RAS LAFFAN	RAS GAS	S	QARLD
RUSSIA	DE-KASTRI	DE-KASTRI TERMINAL	S	RUDKD
RUSSIA	DE-KASTRI	DE-KASTRI TERMINAL	S	RUDKK
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	S	RUNOA

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	S	RUNOB
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	S	RUNOC
RUSSIA	NOVOROSSIYSK	CPC TERMINAL	S	RUNOA
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	S	RUNOE
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	S	RUNOF
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	S	RUNOG
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	S	RUNOH
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	S	RUNOI
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	S	RUNOJ
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	S	RUNOK
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	S	RUNOL
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	S	RUNOM
RUSSIA	NOVOROSSIYSK	SHEKSHARIS	S	RUNON
RUSSIA	OKRUZHNOE ARIA - OKHOTSK	OKRUZHNOE - SAKHALIN	S	RUOAA
RUSSIA	OKRUZHNOE ARIA	OKRUZHNOE - SAKHALIN	S	RUOAB
SAUDI ARABIA	RAS AL KHAFJI	KHAFJI JOINT OPERATIONS CO.	S	SARKJ
SAUDI ARABIA	RAS TANURA	SAUDI ARAMCO	S	SARTB
SENEGAL	DAKAR	SAR	S	SNDKS
SRI LANKA	COLOMBO	CEYPETCO ORUGODAWATTA	S	SLCLC
ST. LUCIA	CUL-DE-SAC BAY	HESS OIL ST. LUCIA LTD. (HOSLL)	S	LCCSH
SYRIA	BANIAS	SCOT BANIAS TERMINAL	S	SYBNS
SYRIA	TARTOUS	SCOT TARTOUS TERMINAL	S	SYTTS
TUNISIA	DIDON OFF SHORE	DIDON	S	TNDDD
TUNISIA	LA SKHIRA	TRAPSA	S	TNLST
TUNISIA	LA SKHIRA	TRAPSA	S	TNLSA
TURKMENISTAN	ALADJA	KARAGEL	S	TMALK
TURKMENISTAN	OKAREM	OKAREM	S	TMOKT

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COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
UKRAINE	ODESSA	ODESSA OIL TERMINAL	S	UAODT
UKRAINE	THEODOSIA	THEODOSIA	S	UATHT
UKRAINE	YUZHNY	MARINE OIL TERMINAL "PIVDENNIY"	S	UAYZM
UNITED KINGDOM	GLASGOW	FINNART	S	GBGGF
UNITED KINGDOM	NIGG BAY	NIGG BAY	S	GBNBT
UNITED STATES	SAVANNAH, GA	NUSTAR ENERGY REFINERY	S	USSVN
US VIRGIN ISLANDS	LIMETREE BAY, ST. CROIX	HOVENSA LLC	S	VILTH
UZBEKISTAN	BUKHARA	BUKHARA OIL REFINERY	S	UZBKR
UZBEKISTAN	FERGANA	FERGANA OIL REFINERY	S	UZFGR
VENEZUELA	BAJO GRANDE	PDVSA	S	VEBGP
VENEZUELA	EL TABLAZO	PDVSA	S	VEETP
VENEZUELA	JOSE	PDVSA	S	VEJOE
VENEZUELA	JOSE	PETROZUATA	S	VEJOP
VENEZUELA	JOSE	TAEJ	S	VEJON
VENEZUELA	JOSE	TAEJ	S	VEJOS
VENEZUELA	JOSE	TOJ	S	VEJOT
VENEZUELA	LA SALINA	PDVSA	S	VELSP
VENEZUELA	PUNTA CAMACHO	PRALCA	S	VEPCP
VENEZUELA	PUERTO LA CRUZ	GUARAGUAO	S	VEPLG
VENEZUELA	PUERTO LA CRUZ	PDVSA	S	VEPLP
VENEZUELA	PUERTO MIRANDA	PDVSA	S	VEPMP
NETHERLANDS	ROTTERDAM / EUROPOORT	VOPAK TERMINAL EUROPOORT	S/C	NLRDV
AZERBAIJAN	ABSSHERON	CAUCASTRANSERV	S/C/L	AZABC
AZERBAIJAN	BAKU	ASTRANSRAIL	S/C/L	AZBKA
AZERBAIJAN	SANGACHAL	AZERTRANS	S/C/L	AZSGA
BRAZIL	GUAMARÉ	TA/OPG	S/C/R	BRGUT
BRAZIL	PLATAFORM SS11	FSO AVARÉ	S/C/R	BRPLF

* C = Ship's Composite

I = Inline

L = Line Manual

R = Shipboard

S = Shore Tank

COUNTRY	PORT	TERMINAL	SAMPLE*	CODE
BRAZIL	SANTOS	DT-TAS	S/C/R	BRSTD
BRAZIL	SÃO FRANCISCO DO SUL	DT - TA TEFRAN	S/C/R	BRSPD
BRAZIL	SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	S/C/R	BRSSA
BRAZIL	SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	S/C/R	BRSSB
BRAZIL	SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	S/C/R	BRSSC
BRAZIL	SÃO SEBASTIÃO	DT-TASS (EX-TEBAR)	S/C/R	BRSSD
BRAZIL	RIO GRANDE	DT - TA TERIG	S/C/R/L	BRRGD
BRAZIL	SANTOS	DT-TAS	S/C/R/L	BRSTT
BRAZIL	TRAMANDAI	DT - TA TEDUT	S/C/R/L	BRTRD
GREECE	ELEUSIS	PETROLA HELLAS REFINERY	S/I	GREFP
GREECE	PACHI	HELLENIC PETROLEUM ASPROP.REFINERY - MEGARA	S/I	GRPCH
ITALY	TARANTO	ENI REFINERY	S/I	ITTRE
KENYA	MOMBASA	KENYA PETROLEUM REFINERIES LTD (KPRL)	S/I	KEMBK
KENYA	MOMBASA	KENYA PETROLEUM REFINERIES LTD (KPRL)	S/I	KEMBR

* C = Ship's Composite

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**CRUDE
OIL BY**

COUNTRY

COUNTRY/CRUDE OIL	OTHER NAME	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
ALBANIA							
PATOS MARINZA		6.5255	15.0				PATO

ALGERIA

SAHARAN BLEND		7.8572	44.9	0.080	-50.0	-58.0	SAHA
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ANGOLA

CABINDA		7.3174	32.8	0.130	10.0	50.0	CBND
DALIA		6.8822	23.0	0.510	-39.0	-38.2	DALI
GIRASSOL		7.2283	30.8	0.320	-9.0	15.8	GIRA
HUNGO		7.1059	28.0	0.610	-28.0	-18.4	HUNG
KISSANJE		7.2019	30.2	0.363	-46.0	-50.8	KISS
KUITO		6.7821	20.8	0.500	-42.0	-43.6	KUIT
MONDO		7.1503	29.0	0.440	-54.0	-65.2	MOND
NEMBA		7.5873	38.8	0.205	-7.0	19.4	NEMB
PALANCA	SOYO BLEND	7.5157	37.2	0.180	9.0	48.2	PALN
PLUTONIO		7.3379	33.2	0.360	6.0	42.8	PLUT
SAXI	SAXI BATUQUE BLEND	7.3064	32.5	0.320	-2.0	28.4	SAXI
XIKOMBA		7.3913	34.4	0.410	3.0	37.4	XIKO

ARGENTINA

CAÑADON SECO	SANTA CRUZ NORTE	7.0455	26.7	0.150	-14.0	6.8	CSCO
ESCALANTE	CHUBUT	6.8867	23.1	0.160	-9.0	15.8	ESCA
HYDRA	HIDRA	7.9535	47.0	0.120	3.0	37.4	HYDR
MARIA INES		8.1523	51.5				MARS
MEDANITO	CERRO REDONDO	7.4131	34.9	0.160	7.0	44.6	MEDA
SAN SEBASTIAN		9.0267	71.1		-23.0	-9.4	SANS
SANTA CRUZ		7.6407	40.0				STCZ
TIERRA DEL FUEGO		7.7968	43.5	0.100	-20.0	-4.0	TDFO

COUNTRY/CRUDE OIL	OTHER NAME	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
AUSTRALIA							
BARROW	BARROW ISLAND	7.4800	36.4	0.050	54.0	129.2	BARR
CHALLIS		7.6185	39.5		-15.0	5.0	CHAL
COSSACK		7.9979	48.0	0.040	-18.0	-0.4	COSS
ENFIELD		6.8248	21.7	0.120			ENFL
JABIRU		7.7081	41.5		15.0	59.0	JBRU
LAMINARIA		8.5824	61.1	0.054	-54.0	-65.2	LMNR
LEGENDRE		7.7882	43.3	0.070	12.0	53.6	LEGE
MUTINEER EXETER		7.7968	43.5	0.033	12.0	53.6	MUTE
PUFFIN		7.8017	43.6	0.050			PUFF
SALADIN		7.6677	40.6		-39.0	-38.2	SLDN
STAG		6.6906	18.7	0.100	-30.0	-22.0	STAG
STYBARROW		6.8739	22.8	0.280			STYB
TALISMAN	YME	7.5736	38.5	0.170			TLSM
THEVENARD BLEND		7.6630	40.5	0.025	-20.0	-4.0	THEV
VINCENT		6.6286	17.3				VNCT
WANDOO		6.7263	19.5		-42.0	-43.6	WAND
WOOLLYBUTT		8.0563	49.3		-43.0	-45.4	WOOL
WORRIOR (COOPER BASIN)		7.8464	44.6	0.020	9.0	48.2	WORR
AZERBAIJAN							
AZERI (BTC)		7.4490	35.7	0.150	-3.0	26.6	AZRB
AZERI LIGHT		7.3800	34.2	0.150	-21.0	-5.8	AZRL
BELIZE							
BELIZE LIGHT		7.6770	40.8	0.890			BLZL

COUNTRY/CRUDE OIL	OTHER NAME	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
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BOLIVIA

RECON BOLIVIANO		7.8464	44.6		9.0	48.2	RCON
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BRAZIL

ALBACORA		7.1438	28.9		-21.0	-5.8	ALBR
CORAL		7.6855	41.0		-27.0	-16.6	CORL
FRADE		6.6594	18.0	0.700	-39.0	-38.2	FRAD
MALT		7.7968	43.5				MALT
MARLIM		6.7537	20.1	0.670	-32.0	-25.6	MARL
RGN MISTURA		7.1813	29.7	0.330	-21.0	-5.8	RGNM
RONCADOR		7.1479	29.0		-24.0	-11.2	RONK

BRUNEI

BEBATIK		7.2167	30.5	0.126	3.8	38.8	BEBA
BRUNEI LIGHT		7.7099	41.6	0.050	6.0	42.8	BRUN
CHAMPION EXPORT	CE	7.2308	30.8	0.126	3.8	38.8	CHAM
MANIS		7.3285	33.0	0.126	3.8	38.8	MANS
SERIA LIGHT EXPORT BLEND	SLEB	7.5364	37.7	0.091	4.8	40.6	SRIA

CAMEROON

DOBA (CAMEROON)		6.7712	20.5	0.001			DOBA
EBOME		7.2416	31.1	0.001	-63.0	-81.4	EBME
KOLE		7.2167	30.5	0.001	-21.0	-5.8	KOLE
LOKELE		6.7712	20.5	0.001	-51.0	-59.8	LKLE
MOUDI		7.3731	34.0		-63.0	-81.4	MOUD

COUNTRY/CRUDE OIL	OTHER NAME	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
CANADA							
ALBIAN HEAVY (ATHABASCA)	ATHABASCA	6.7306	19.6	2.100			ALBH
BOW RIVER		6.9629	24.8	2.100	-54.0	-65.2	BOWR
COLD LAKE	COLD LAKE VANCOUVER	6.7755	20.6	3.650	-54.0	-65.2	COLD
HIBERNIA		7.4227	35.1	0.438	7.0	44.6	HIBR
PEMIUM ALBIAN (ATHABASCA)		7.4402	35.5	0.040			PEMI
SYN		6.7041	19.0				SYNC
TERRA NOVA		7.3464	33.4	0.531	12.0	53.6	TERR
WEST CANADIAN SELECT		6.7712	20.5	3.300			WCSL
WHITE ROSE		7.2035	30.2	0.310			WTRS
CHAD							
DOBA (CHAD)		6.9714	25.0	0.100	-4.0	24.8	DOBB
CHINA							
BOHAI CFD	BOHAI CFD 06,10,14	6.6863	18.6	0.217			BOHA
BOZHONG		6.6146	17.0	0.300	-10.0	14.0	BOZH
CHENG BEI (A+B)		6.5705	16.0	0.430			CHNG
DAQING (TACHING)		7.2793	31.9	0.090	24.0	75.2	DAQI
JANGSANMU (LF)		6.6105	16.9	0.320			JANG
JING ZHOU 9-3-1		6.6820	18.5	0.260			JING
LIAO HE (XJ)		6.7624	20.3	0.420			LIAO
LIUHUA		6.7306	19.6	0.320	6.0	42.8	LIUH
LUFENG		7.3422	33.3	0.060	40.0	104.0	LUFE
NANG HAI LIGHT	NANHAI LIGHT	7.6185	39.5	0.050	30.0	86.0	NANH
PANYU		7.2167	30.5	0.113			PANY
PENG LAI 19-3		6.8070	21.3	0.303			PENG
QIN HUANG DAO (QHD)	QINHUANGDAO (QHD)	6.5925	16.5	0.261	-10.0	14.0	QINH

COUNTRY/CRUDE OIL	OTHER NAME	BBLS/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
SHENGLI		6.7400	19.8	1.690	21.0	69.8	SHEN
SUIZONG 36-1 (SC)		6.4765	13.9	0.380			SUIZ
TACHING		7.2928	32.2	0.110			TACH
WENCHANG		7.4227	35.1	0.117			WNCH
XI JIANG		7.2525	31.3	0.090			XIJG
ZHAO DONG		6.6771	18.4	0.250			ZHDG

COLOMBIA

CANO LIMON		7.1683	29.4	0.492	-21.0	-5.8	CANO
CASTILLA		6.6820	18.5	1.700	-12.0	10.4	CAST
CUSIANA		7.7298	42.0	0.110	-3.0	26.6	CUSI
SOUTH BLEND		7.2019	30.2	0.600	-12.0	10.4	SBCO
VASCONIA		6.9560	24.7	1.500	-16.0	3.2	VASC

CONGO

CONGO COMPOSITE	COCO	7.2350	30.9		27.0	80.6	COCO
DJENO BLEND		7.0899	27.7	0.310	3.0	37.4	DJNO
NKOSSA BLEND	N'KOSSA	7.6724	40.7	< 0.05	9.0	48.2	NKSA

COTE D'IVOIRE

BAOBAB		6.8822	23.0	0.400			BAOB
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DENMARK

DUC		7.3913	34.4	0.260	-45.0	-49.0	DANC
SOUTH ARNE		7.5382	37.7	0.210	0.0	32.0	SARN

ECUADOR

NAPO		6.6686	18.2	2.200			NAPO
ORIENTE	CASTOR	6.9185	23.8	1.550	-12.0	10.4	ORNT

COUNTRY/CRUDE OIL	OTHER NAME	BBLS/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
EGYPT							
AMAL		7.5382	37.7	1.000	0.0	32.0	AMAL
BELAYIM MIX	BELAYIUM MIX	7.0836	27.5	2.300	-15.0	5.0	BLYM
GEISUM		6.9714	25.0	4.000	4.0	39.2	GISM
GHARIB BLEND		6.8248	21.7	3.500	1.0	33.8	GRRB
GULF SUEZ MIX		7.2167	30.5	1.600	-9.0	15.8	GSMX
QAROUN		7.3396	33.3	0.310	6.0	42.8	QARN
RAS BUDRAN		6.9491	24.5	2.450	-6.0	21.2	RSBD
WESTERN DESERT		7.6789	40.9	0.315	3.0	37.4	WSTD
ZAAFARANA		6.8560	22.4	2.980	-3.9	25.0	ZFRN
ZEIT BAY		7.4314	35.3	1.270	0.0	32.0	ZTBY

EQUATORIAL GUINEA

CEIBA		7.2217	30.6	0.570	-18.0	-0.4	CEIB
CEIBA BLEND		7.2167	30.5		-18.0	-0.4	CEBB
ZAFIRO BLEND		7.2085	30.3	0.265	<-36	<-32	ZABL

FRANCE

MIX AQUITAIN		7.2575	31.4		-15.0	5.0	MIXA
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GABON

ETAME		7.5068	37.0	1.000	33.0	91.4	ETAM
LUCINA BLEND		7.4183	35.0	0.069	27.0	80.6	LUCN
MANDJI		7.2085	30.3	0.080	14.0	57.2	MANJ
OGUENDJO BLEND		7.3106	32.6	1.540	21.0	69.8	OGNJ
OLENDE		6.6216	17.2	1.560	33.0	91.4	OLEN
RABI EXPORT BLEND		7.3439	33.4	0.300	30.0	86.0	RABB
RABI LIGHT		7.3930	34.5	0.067	24.0	75.2	RABI
REMBOUE		7.4270	35.2	0.060	21.0	69.8	REMB

COUNTRY/CRUDE OIL	OTHER NAME	BBLS/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
GEORGIA							
MIRZAANI		7.2575	31.4	0.220			MIRZ
SUPSA		6.8292	21.8	0.490	-9.0	15.8	SUPS
GERMANY							
MITTELPLATE		6.7931	21.0	2.880	-		MITT
GHANA							
BONSU		7.4200	35.1	0.09	-6.0	21.2	BONS
GREECE							
PRINOS		7.2391	31.0	0.330	-24.0	-11.2	PRNS
GUATEMALA							
COBAN	COBAN BLEND	6.6063	16.8	6.500	-18.0	-0.4	COBA
XAN COBAN		6.5657	15.9	5.730			XANC
INDIA							
KGBASIN		7.7527	42.5		9.0	48.2	KGBA
MUMBAI		7.5518	38.0		-6.0	21.2	MUMB
INDONESIA							
ANOA		7.8867	45.5	0.043	10.0	50.0	ANOA
ARDJUNA		7.5094	37.1	0.112	18.0	64.4	ARDJ
ATTAKA		7.7099	41.6	0.080	-32.0	-25.6	ATAK
BADAK		7.6472	40.2	0.090	-12.0	10.4	BADK
BEKAPAI		7.7166	41.7	0.070	-21.0	-5.8	BEKA
BELIDA		7.9394	46.7	0.039	12.0	53.6	BELI
BUNYU		7.2391	31.0	0.086	21.0	69.8	BUNY

COUNTRY/CRUDE OIL	OTHER NAME	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
CAMAR		7.4623	36.0		-33.0	-27.4	CAMR
CEPU		7.2844	32.0	0.150			CEPU
CINTA		7.2583	31.4	0.125	32.0	89.6	CINT
DURI		6.7850	20.8	0.249	15.0	59.0	DURI
GERAGAI		7.8996	45.8	0.055	-21.0	-5.8	GERA
HANDIL		7.8152	43.9	0.520	-27.0	-16.6	HAND
JATIBARANG		7.5247	37.4	0.173	27.0	80.6	JATI
KAJI SEMOGA		7.5699	38.4	0.070	21.0	69.8	KAJI
KAKAP		7.9484	46.9	0.020			KAKP
KERAPU		7.8640	45.0	0.214	30.0	86.0	KERA
LALANG		7.5654	38.3	0.060	30.0	86.0	LALA
MADURA		7.9085	46.0	0.214	<-37.2	<-35	MDUR
MINAS	SUMATRA LIGHT	6.9094	23.6	0.112	33.0	91.4	MNAS
MUDI		7.5382	37.7	0.240	27.0	80.6	MUDI
OYONG		7.6093	39.3	0.178	24.0	75.2	OYON
SEMBILANG		7.4183	35.0	0.150	37.5	99.5	SEMB
SEPINGGAN YAKIN		7.3285	33.0	0.080	-7.0	19.4	SPGN
SUMATRAN LIGHT	MINAS	6.9094	23.6	0.112	33.0	91.4	SUMA
TIAKA		7.1544	29.1	2.007	-12.0	10.4	TAIK
UDANG		7.5382	37.7	0.020	35.0	95.0	UDNG
WALIO		8.0429	49.0	0.170	-23.0	-9.4	WALI
WEST SENO		7.5518	38.0	0.100	12.0	53.6	WSNO
WIDURI		7.2793	31.9	0.127	43.0	109.4	WIDU

IRAN

DOROUD	DOROOD, KHARG ISLAND CRUDE	7.3731	34.0	2.500			DORD
FOROOZAN	CYRUS,DARIUS, FEREDOON	7.1945	30.0	2.500	-13.0	8.6	FRZN
IRANIAN HEAVY	GACHSARAN	7.2060	30.3	2.500	-36.0	-32.8	IRHV

COUNTRY/CRUDE OIL	OTHER NAME	BBLS/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
IRANIAN LIGHT	IRAN LIGHT	7.3619	33.8	1.500	-16.0	3.2	IRLI
LAVAN BLEND		7.4525	35.8	1.540	-13.0	8.6	LVNB
NOWROOZ		6.7328	19.7	3.400			NWRZ
SIRRI		7.3422	33.3	1.710	-18.0	-0.4	SIRI
SOROOSH		6.7041	19.0		-27.0	-16.6	SRSR

IRAQ

BASRAH LIGHT		7.2085	30.3	3.100	-27.0	-16.6	BSRL
KIRKUK		7.3688	33.9	2.500	-30.0	-22.0	KIRK

ITALY

ROSPO MARE		6.3917	12.0	6.300	-1.0	30.2	ROSP
VAL D'AGRI		7.5699	38.4	2.120	-24.0	-11.2	VALD

KAZAKHSTAN

AKTOBE		7.7128	41.6	0.730			AKTB
CPC BLEND		7.8798	45.4	0.520	-41.0	-41.8	CPCB
KARACHAGANAK		7.8503	44.7	0.810	-60.0	-76.0	KARA
KASHAGAN		7.8640	45.0	0.800			KASH
KAZAKH OIL BLEND		7.5112	37.1	0.300	15.0	59.0	KZOB
KUMKOL		7.6010	39.1	0.170	15.0	59.0	KUMK
KUMKOL BLEND		7.4800	36.4	0.910	0.0	32.0	KUMB
TENGIZ LIGHT		7.8818	45.4	0.500	-21.0	-5.8	TENG

KUWAIT

EOCENE		6.6863	18.6	4.560	-45.0	-49.0	EOCN
KUWAIT EXPORT	KECO	7.2167	30.5	2.640	-57.0	-70.6	KTEX
RATAWI		6.9360	24.2	3.871	-21.0	-5.8	RATA

COUNTRY/CRUDE OIL	OTHER NAME	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
LIBYA							
AL JURF		7.2259	30.7	1.740			AJRF
AL SHARARA		7.7431	42.3	0.077	<-19	<-66	ALSH
AMNA		7.5364	37.7	0.110	20.0	68.0	AMNA
BOURI		7.0251	26.2	1.690	-12.0	10.4	BURI
BREGA		7.7327	42.1	0.230	3.0	37.4	BREG
BU-ATTIFEL C.O		7.6630	40.5	0.019	38.0	100.4	BTFL
EL SHARARA	MURZUK	7.7194	41.8	0.220	-51.0	-59.8	ELSA
ES SIDER		7.5094	37.1	0.390	0.0	32.0	ESDR
MELLITAH		7.7527	42.5	0.115	< -30		MELL
MESLA		7.5699	38.4	0.280	15.0	59.0	MSLA
SARIR		7.5202	37.3	0.130	22.0	71.6	SRIR
SIRTICA		7.6388	40.0	0.470	-3.0	26.6	SRCA
ZUEITINA		7.5581	38.2	0.440	-1.0	30.2	ZUTN

MALAYSIA

ABU BLEND		7.5337	37.6	0.065	36.0	96.8	ABUB
ANGSI		7.6388	40.0	0.120	33.0	91.4	ANGS
BINTULU	BIC	7.5050	37.0	0.175	-21.0	-5.8	BINT
BUNGA KEKWA		7.5718	38.5	0.040	36.0	96.8	BUNK
CENDOR		7.7232	41.9	0.100	24.0	75.2	CNDR
DULANG		7.5202	37.3	0.070	36.0	96.8	DULA
KIDURONG		7.5809	38.7	0.096	-60.0	-76.0	KIDU
KIKEH		7.4871	36.6	0.069	21.0	69.8	KIKE
LABUAN		7.2060	30.3	0.090	12.0	53.6	LBUN
MASA		7.8191	44.0	0.035	-24.0	-11.2	MASA
MIRI LIGHT	MLCO	7.2375	31.0	0.093	-9.0	15.8	MIRI
PENARA LUKUT		7.4889	36.6	0.065	36.0	96.8	PNRL
TAPIS BLEND		7.9105	46.1	0.030	16.0	60.8	TAPI

COUNTRY/CRUDE OIL	OTHER NAME	BBLS/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
MAURITANIA							
CHINGUETTI		7.0923	27.7	0.490	6.0	42.8	CHIN
MEXICO							
ALTAMIRA		6.5925	16.5	4.900			ALTM
ISTHMUS		7.3507	33.5	1.020	-39.0	-38.2	ISTH
MAYA		6.8041	21.3	3.900	-21.0	-5.8	MAY
OLMECA		7.5736	38.5	0.950	-51.0	-59.8	OLMC
NETHERLANDS							
DE RUYTER		7.7431	42.3	0.180			DERU
HANZE		7.5654	38.3	0.280	-42.0	-43.6	HANZ
NEW ZEALAND							
MCKEE		7.8279	44.2	<0.1	15.0	59.0	MKEE
NIGERIA							
AGBAMI		7.9756	47.5	0.012	2.0	35.6	AGBA
AMENAM		7.5964	39.0	0.210	18.0	64.4	AMEN
ANTAN BLEND		7.1277	28.5	0.270	-39.0	-38.2	ANBC
BANGA		7.2167	30.5	0.220			BANG
BONGA		7.2126	30.4	0.260			BONG
BONNY LIGHT		7.3285	33.0	0.140	-5.0	23.0	BONL
BRASS LIGHT	BRASS RIVER	7.4844	36.5	0.120	-15.0	5.0	BRAS
EA		7.4131	34.9	0.080	0.0	32.0	EACO
ERHA		7.3731	34.0	0.180			ERHA
ESCRAVOS		7.3507	33.5	0.150	-6.0	21.2	ESCR
FORCADOS		7.1059	28.0	0.230	-12.0	10.4	FORC
IMA		7.4517	35.8	0.150	15.0	59.0	IMAC

COUNTRY/CRUDE OIL	OTHER NAME	BBLS/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
OKONO		7.6407	40.0	0.100	15.0	59.0	OKON
OKWORI		7.4960	36.8	0.180			OKWO
PENINGTON		7.3956	34.5	0.400	-3.0	26.6	PENC
QUA IBOE		7.4183	35.0	0.140	12.0	53.6	QUAI
YOHO		7.6407	40.0	0.160	3.0	37.4	YOHO

NORWAY

BALDER		7.1994	30.1	0.480	-24.0	-11.2	BALD
DRAUGEN		7.6565	40.4	0.140	-18.0	-0.4	DRAU
GRANE		6.7084	19.1	0.810	-30.0	-22.0	GRAN
GULLFAKS		7.4800	36.4	0.270	-21.0	-5.8	GLFK
HEIDRUN		6.9760	25.1	0.550	-42.0	-43.6	HEID
NORNE		7.2726	31.8	0.220	9.0	48.2	NORN
OSEBERG		7.5112	37.1	0.240	1.0	33.8	OSBG
STATFJORD	STAFJORD	7.5382	37.7	0.286	-18.0	-0.4	STFJ
TROLL BLEND		7.1994	30.1	0.250	-48.0	-54.4	TROL

OMAN

OMAN EXPORT BLEND	OEBCO	7.3327	33.1	1.000	-42.0	-43.6	OMAN
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PAPUA NEW GUINEA

KUTUBU BLEND		7.8640	45.0	0.030	-1.0	30.2	KUTU
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PERU

CORVINA		6.8890	23.2	0.154			CORY
LORETO		6.6771	18.4	1.260	-27.0	-16.6	LORT
MAYNA		6.8159	21.5	0.590			MAYN

COUNTRY/CRUDE OIL	OTHER NAME	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
PHILIPPINES							
MATINLOC		7.7565	42.6				MTNL
NIDO		7.0518	26.8				NIDO
PALAWAN LIGHT		7.4270	35.2				PLWN
POLAND							
ROZEWIE		7.7795	43.1	0.070			ROZE
QATAR							
AL SHAHEEN		7.1414	28.8	2.490	-18.0	-0.4	ASCO
DUKHAN		7.6902	41.1	1.220			DKHN
QATAR LAND		7.6602	40.4		-49.0	-56.2	QTLN
QATAR MARINE		7.3038	32.4	1.470	-39.0	-38.2	QTMR
RUSSIA							
KALININGRAD		7.5736	38.5	0.200			KALN
OKRUZHNOE		7.5736	38.5	0.170			OKRZ
RUSSIAN EXPORT BLEND	REBCO	7.2667	31.6	1.300	-9.0	15.8	REBC
RUSSIAN LIGHT		7.4578	35.9	0.600	-11.0	12.2	RULI
SAKHALIN BLEND		7.0613	27.0	0.240			SAKB
SAKHALIN VITYAZ	VITYAZ OIL	7.3913	34.4	0.220	-45.0	-49.0	SAKV
SARATOV		7.7128	41.6	0.490	-3.0	26.6	SARA
SIBERIAN LIGHT		7.4332	35.4	1.010	-6.0	21.2	SBNE
SOKOL		7.6093	39.3	0.187			SOKO
URALS	URAL	7.2617	31.5	1.420	-18.0	-0.4	URAL
ZAIKINSKAYA		7.9155	46.2	0.205	-12.0	10.4	ZAIK

COUNTRY/CRUDE OIL	OTHER NAME	BBLS/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
SAUDI ARABIA							
ARABIAN EXTRA LIGHT	ARABIAN SUPER LIGHT	7.7033	41.4	0.950	-33.0	-27.4	ARBX
ARABIAN HEAVY	ARAB HEAVY	7.1035	28.0	2.750	-51.0	-59.8	ARBH
ARABIAN LIGHT	ARAB LIGHT	7.3285	33.0	1.800	-34.0	-29.2	ARBL
ARABIAN MEDIUM		7.2167	30.5	2.300	-36.0	-32.8	ARBM
ARABIAN SUPER LIGHT		8.1480	51.4	0.050	-39.0	-38.2	ARBS
HOUT		7.2391	31.0				HOUT
KHAFJI		7.1059	28.0	2.850	-57.0	-70.6	KHFJ
WAFRA		6.9491	24.5	3.800			WFRA

SOUTH AFRICA

SABLE		7.8190	44.0	0.001			SBLO
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SUDAN

DAR BLEND		7.0353	26.4	0.120	39.0	102.2	DARB
NILE BLEND		7.3688	33.9	0.060	36.0	96.8	NILE

SYRIA

SYRIAN HEAVY BLEND		6.9003	23.4	4.000	-30.0	-22.0	SODI
SYRIAN LIGHT BLEND		7.5175	37.2	0.760	-6.0	21.2	SYRL

THAILAND

BENCHAMAS		7.7527	42.5	0.035	32.0	89.6	BENC
JASMINE		7.4183	35.0		27.0	80.6	JASM
PATTANI		7.4183	35.0		9.0	48.2	PATT
TANTAWAN		7.7527	42.5	0.050	16.0	60.8	TNTW

TRINIDAD

CALYPSO		7.2325	30.8	0.590	-40.0	-40.0	CALY
GALEOTA MIX		7.6277	39.7	0.155	0.0	32.0	GLTM

COUNTRY/CRUDE OIL	OTHER NAME	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
TUNISIA							
ASHTART		7.1723	29.5	0.990	-6.0	21.2	ASHT
DIDON		7.4578	35.9	0.800	-6.0	21.2	DIDN
EZZAOUIA MELANGE		7.8759	45.3	0.300	30.0	86.0	EZZA
ODNA		7.6388	40.0	0.240	-36.0	-32.8	ODNA
RHEMOURA		7.3285	33.0	1.000	-24.0	-11.2	RMRA
ZARZAITINE		7.7833	43.2	0.160	-18.0	-0.4	ZARZ
ZARZAITINE MELANGE		7.8036	43.7	0.100	-12.0	10.4	ZRZN

TURKMENISTAN

CHELEKEN		7.6705	40.7	0.155	-6.0	21.2	CHKN
KEYMIR		7.4446	35.6	0.210	18.0	64.4	KEYM
OKAREM		7.2441	31.1	0.300	24.0	75.2	OKRM

UNITED ARAB EMIRATES

ABU BU KHOOSH	ABU BUKHOOSH	7.2617	31.5	1.900	-37.0	-34.6	ABSH
DUBAI		7.2126	30.4	2.130	-43.0	-45.4	AEFA
LOWER ZAKUM	ZAKHUM LOWER	7.6500	40.2	1.030	-31.7	-25.1	LZKM
MUBARRAZ		7.5827	38.7	0.980			MBRZ
MURBAN		7.6324	39.8	0.790	-34.0	-29.2	MRBN
UMM SHAIFF	UMM SHAIFF	7.5157	37.2	1.390	-30.0	-22.0	UMSH
UPPER ZAKUM		7.3870	34.3	1.330	-28.9	-20.0	UZKM

UNITED KINGDOM

ALBA		6.7285	19.6	1.200	-42.0	-43.6	ALBA
ANASURIA		7.6277	39.7	0.314	-30.0	-22.0	ANAS
BANFF BLEND		7.5609	38.2	0.240	-6.0	21.2	BANF
BEATRICE		7.5427	37.8	0.050	24.0	75.2	BEAT

COUNTRY/CRUDE OIL	OTHER NAME	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
BERYL		7.6056	39.2	0.420	6.0	42.8	BRYL
BRENT BLEND		7.5518	38.0	0.380	3.0	37.4	BRNT
CAPTAIN		6.7127	19.2	0.700	-29.0	-20.2	CAPT
CLAIR		6.9140	23.7	0.440	-32.0	-25.6	CLAR
CURLEW		8.0563	49.3	0.100	-27.0	-16.6	CURL
EKOFISK		7.5382	37.7	0.230	-9.0	15.8	EKFS
FLOTTA BLEND		7.5023	36.9	0.820	-9.0	15.8	FLOT
FOINAVEN		7.0361	26.5	0.370	-15.0	5.0	FOIN
FORTIES BLEND		7.6986	41.3	0.500	-15.0	5.0	FRTB
GRYPHON		6.8822	23.0	0.360	-42.2	-44.0	GRYP
HARDING		6.7799	20.7	0.590	-45.0	-49.0	HARD
LIVERPOOL BAY BLEND		7.8640	45.0	0.210	-21.0	-5.8	LVPB
PIERCE		7.5563	38.1	0.130	-6.0	21.2	PIER
ROSS		7.5873	38.8	0.150	3.0	37.4	ROSS
SCHIEHALLION		6.9938	25.5	0.470	-6.0	21.2	SCHI
TRITON		7.6093	39.3	0.230	-6.0	21.2	TRIT
WYTCH FARM		7.6949	41.2	0.080	-15.0	5.0	WYTC

UNITED STATES

ALASKA NORTH SLOPE		7.2259	30.7	1.000	-18.0	-0.4	ALAS
HEAVY LOUISIANA SWEET		7.3106	32.6	0.370			HLSS
LIGHT LOUISIANA SWEET		7.4800	36.4	0.130	-24.0	-11.2	LLSS
MARS BLEND		7.2167	30.5	1.810	-39.0	-38.2	MARB
SOUTHERN GREEN CANYON		7.2126	30.4	2.240			SGCN
WEST TEXAS INTERMEDIATE		7.5827	38.7	0.450	-36.0	-32.8	WTXI
WEST TEXAS SOUR		7.2709	31.7	1.280	-27.0	-16.6	WTXS

COUNTRY/CRUDE OIL	OTHER NAME	BBLs/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
VENEZUELA							
ANACO WAX		7.7968	43.5	0.150	70.0	158.0	ANAC
BACHAQUERO (BCF-17)	BCF-17	6.6146	17.0	2.500	-18.0	-0.4	BCFO
BACHAQUERO (BCF-22)	BCF-22	6.8381	22.0	2.140	-32.0	-25.6	BCFA
BOSCAN		6.3071	10.1	5.700	7.0	44.6	BOSC
CERRO NEGRO		6.5705	16.0	3.340	30.0	86.0	CERR
HAMACA		7.0251	26.2	1.360	5.0	41.0	HAMA
HAMACA BLEND	SPECIAL HAMACA BLEND	6.8381	22.0				HAMB
LAGO TRECO MEDIANO		6.9094	23.6	1.810	-26.0	-14.8	LGTO
LEONA 20		6.7487	20.0				LN20
LEONA 22		6.8381	22.0		-45.0	-49.0	LN22
LEONA 24		6.9269	24.0	1.520	-35.0	-31.0	LN24
MARALAGO		6.8470	22.2	2.240	-16.0	3.2	MARA
MEREY	MEREY	6.5705	16.0	2.650	-23.0	-9.4	MERE
MEREY 16		6.5705	16.0				MERY
MEREY BLEND		6.7624	20.3	2.310			MRYB
MEREY HEAVY	MEREY 16	6.5705	16.0				MRYH
MESA		7.1325	28.6	1.030	-24.0	-11.2	MESA
MONAGAS 18		6.6707	18.3				MNGS
PETROZUATA		6.7931	21.0	1.780			PTZU
PZ HEAVY SYNCRUDE		6.7041	19.0				PZHS
PZ LIGTH SYNCRUDE		6.9714	25.0				PZLS
SANTA BARBARA		7.6093	39.3	0.469	-21.0	-5.8	SBAR
TIA JUANA LIGHT		7.2793	31.9	1.180	-29.0	-20.2	TIAJ
ZUATA MEDIUM		6.9315	24.1	1.160	-60.0	-76.0	ZUTM
ZUATA OFF SPEC		6.7041	19.0				ZUTO
ZUATA SWEET		7.1277	28.5	0.240	-51.0	-59.8	ZUAT

COUNTRY/CRUDE OIL	OTHER NAME	BBLS/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
VIETNAM							
BACH HO		7.5068	37.0	0.080	36.0	96.8	BAHO
RANG DONG		7.5382	37.7	0.050	33.0	91.4	RANG
SU TU DEN		7.4623	36.0	0.040			SUTU
YEMEN							
MARIB LIGHT	MARIB LT (ALIF)	7.9716	47.4	0.360	-27.0	-16.6	MARI
MASILA		7.2575	31.4	0.540	-9.0	15.8	MSIL

CRUDE OIL

BY

CRUDE

NAME

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
A							
ABU BLEND	MALAYSIA	7.5337	37.6	0.065	36.0	96.8	ABUB
ABU BU KHOOSH	UNITED ARAB EMIRATES	7.2617	31.5	1.900	-37.0	-34.6	ABSH
AGBAMI	NIGERIA	7.9756	47.5	0.012	2.0	35.6	AGBA
AKTOBE	KAZAKHSTAN	7.7128	41.6	0.730			AKTB
AL JURF	LIBYA	7.2259	30.7	1.740			AJRF
AL SHAHEEN	QATAR	7.1414	28.8	2.490	-18.0	-0.4	ASCO
AL SHARARA	LIBYA	7.7431	42.3	0.077	<-19	<-66	ALSH
ALASKA NORTH SLOPE	UNITED STATES	7.2259	30.7	1.000	-18.0	-0.4	ALAS
ALBA	UNITED KINGDOM	6.7285	19.6	1.200	-42.0	-43.6	ALBA
ALBACORA	BRAZIL	7.1438	28.9		-21.0	-5.8	ALBR
ALBIAN HEAVY (ATHABASCA)	CANADA	6.7306	19.6	2.100			ALBH
ALTAMIRA	MEXICO	6.5925	16.5	4.900			ALTM
AMAL	EGYPT	7.5382	37.7	1.000	0.0	32.0	AMAL
AMENAM	NIGERIA	7.5964	39.0	0.210	18.0	64.4	AMEN
AMNA	LIBYA	7.5364	37.7	0.110	20.0	68.0	AMNA
ANACO WAX	VENEZUELA	7.7968	43.5	0.150	70.0	158.0	ANAC
ANASURIA	UNITED KINGDOM	7.6277	39.7	0.314	-30.0	-22.0	ANAS
ANGSI	MALAYSIA	7.6388	40.0	0.120	33.0	91.4	ANGS
ANOA	INDONESIA	7.8867	45.5	0.043	10.0	50.0	ANOA
ANTAN BLEND	NIGERIA	7.1277	28.5	0.270	-39.0	-38.2	ANBC
ARABIAN EXTRA LIGHT	SAUDI ARABIA	7.7033	41.4	0.950	-33.0	-27.4	ARBX
ARABIAN HEAVY	SAUDI ARABIA	7.1035	28.0	2.750	-51.0	-59.8	ARBH
ARABIAN LIGHT	SAUDI ARABIA	7.3285	33.0	1.800	-34.0	-29.2	ARBL
ARABIAN MEDIUM	SAUDI ARABIA	7.2167	30.5	2.300	-36.0	-32.8	ARBM
ARABIAN SUPER LIGHT	SAUDI ARABIA	8.1480	51.4	0.050	-39.0	-38.2	ARBS
ARDJUNA	INDONESIA	7.5094	37.1	0.112	18.0	64.4	ARDJ
ASHTART	TUNISIA	7.1723	29.5	0.990	-6.0	21.2	ASHT

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
ATTAKA	INDONESIA	7.7099	41.6	0.080	-32.0	-25.6	ATAK
AZERI (BTC)	AZERBAIJAN	7.4490	35.7	0.150	-3.0	26.6	AZRB
AZERI LIGHT	AZERBAIJAN	7.3800	34.2	0.150	-21.0	-5.8	AZRL

B

BACH HO	VIETNAM	7.5068	37.0	0.080	36.0	96.8	BAHO
BACHAQUERO (BCF-17)	VENEZUELA	6.6146	17.0	2.500	-18.0	-0.4	BCFO
BACHAQUERO (BCF-22)	VENEZUELA	6.8381	22.0	2.140	-32.0	-25.6	BCFA
BADAK	INDONESIA	7.6472	40.2	0.090	-12.0	10.4	BADK
BALDER	NORWAY	7.1994	30.1	0.480	-24.0	-11.2	BALD
BANFF BLEND	UNITED KINGDOM	7.5609	38.2	0.240	-6.0	21.2	BANF
BANGA	NIGERIA	7.2167	30.5	0.220			BANG
BAOBAB	COTE D'IVOIRE	6.8822	23.0	0.400			BAOB
BARROW	AUSTRALIA	7.4800	36.4	0.050	54.0	129.2	BARR
BASRAH LIGHT	IRAQ	7.2085	30.3	3.100	-27.0	-16.6	BSRL
BEATRICE	UNITED KINGDOM	7.5427	37.8	0.050	24.0	75.2	BEAT
BEBATIK	BRUNEI	7.2167	30.5	0.126	3.8	38.8	BEBA
BEKAPAI	INDONESIA	7.7166	41.7	0.070	-21.0	-5.8	BEKA
BELAYIM MIX	EGYPT	7.0836	27.5	2.300	-15.0	5.0	BLYM
BELIDA	INDONESIA	7.9394	46.7	0.039	12.0	53.6	BELI
BELIZE LIGHT	BELIZE	7.6770	40.8	0.890			BLZL
BENCHAMAS	THAILAND	7.7527	42.5	0.035	32.0	89.6	BENC
BERYL	UNITED KINGDOM	7.6056	39.2	0.420	6.0	42.8	BRYL
BINTULU	MALAYSIA	7.5050	37.0	0.175	-21.0	-5.8	BINT
BOHAI CFD	CHINA	6.6863	18.6	0.217			BOHA
BONGA	NIGERIA	7.2126	30.4	0.260			BONG
BONNY LIGHT	NIGERIA	7.3285	33.0	0.140	-5.0	23.0	BONL
BONSU	GHANA	7.4200	35.1	0.09	-6.0	21.2	BONS

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
BOSCAN	VENEZUELA	6.3071	10.1	5.700	7.0	44.6	BOSC
BOURI	LIBYA	7.0251	26.2	1.690	-12.0	10.4	BURI
BOW RIVER	CANADA	6.9629	24.8	2.100	-54.0	-65.2	BOWR
BOZHONG	CHINA	6.6146	17.0	0.300	-10.0	14.0	BOZH
BRASS LIGHT	NIGERIA	7.4844	36.5	0.120	-15.0	5.0	BRAS
BREGA	LIBYA	7.7327	42.1	0.230	3.0	37.4	BREG
BRENT BLEND	UNITED KINGDOM	7.5518	38.0	0.380	3.0	37.4	BRNT
BRUNEI LIGHT	BRUNEI	7.7099	41.6	0.050	6.0	42.8	BRUN
BU-ATTIFEL C.O	LIBYA	7.6630	40.5	0.019	38.0	100.4	BTFL
BUNGA KEKWA	MALAYSIA	7.5718	38.5	0.040	36.0	96.8	BUNK
BUNYU	INDONESIA	7.2391	31.0	0.086	21.0	69.8	BUNY

C

CABINDA	ANGOLA	7.3174	32.8	0.130	10.0	50.0	CBND
CALYPSO	TRINIDAD	7.2325	30.8	0.590	-40.0	-40.0	CALY
CAMAR	INDONESIA	7.4623	36.0		-33.0	-27.4	CAMR
CAÑADON SECO	ARGENTINA	7.0455	26.7	0.150	-14.0	6.8	CSCO
CANO LIMON	COLOMBIA	7.1683	29.4	0.492	-21.0	-5.8	CANO
CAPTAIN	UNITED KINGDOM	6.7127	19.2	0.700	-29.0	-20.2	CAPT
CASTILLA	COLOMBIA	6.6820	18.5	1.700	-12.0	10.4	CAST
CEIBA	EQUATORIAL GUINEA	7.2217	30.6	0.570	-18.0	-0.4	CEIB
CEIBA BLEND	EQUATORIAL GUINEA	7.2167	30.5		-18.0	-0.4	CEBB
CENDOR	MALAYSIA	7.7232	41.9	0.100	24.0	75.2	CNDR
CEPU	INDONESIA	7.2844	32.0	0.150			CEPU
CERRO NEGRO	VENEZUELA	6.5705	16.0	3.340	30.0	86.0	CERR
CHALLIS	AUSTRALIA	7.6185	39.5		-15.0	5.0	CHAL
CHAMPION EXPORT	BRUNEI	7.2308	30.8	0.126	3.8	38.8	CHAM
CHELEKEN	TURKMENISTAN	7.6705	40.7	0.155	-6.0	21.2	CHKN

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
CHENG BEI (A+B)	CHINA	6.5705	16.0	0.430			CHNG
CHINGUETTI	MAURITANIA	7.0923	27.7	0.490	6.0	42.8	CHIN
CINTA	INDONESIA	7.2583	31.4	0.125	32.0	89.6	CINT
CLAIR	UNITED KINGDOM	6.9140	23.7	0.440	-32.0	-25.6	CLAR
COBAN	GUATEMALA	6.6063	16.8	6.500	-18.0	-0.4	COBA
COLD LAKE	CANADA	6.7755	20.6	3.650	-54.0	-65.2	COLD
CONGO COMPOSITE	CONGO	7.2350	30.9		27.0	80.6	COCO
CORAL	BRAZIL	7.6855	41.0		-27.0	-16.6	CORL
CORVINA	PERU	6.8890	23.2	0.154			CORY
COSSACK	AUSTRALIA	7.9979	48.0	0.040	-18.0	-0.4	COSS
CPC BLEND	KAZAKHSTAN	7.8798	45.4	0.520	-41.0	-41.8	CPCB
CURLEW	UNITED KINGDOM	8.0563	49.3	0.100	-27.0	-16.6	CURL
CUSIANA	COLOMBIA	7.7298	42.0	0.110	-3.0	26.6	CUSI

D

DALIA	ANGOLA	6.8822	23.0	0.510	-39.0	-38.2	DALI
DAQING (TACHING)	CHINA	7.2793	31.9	0.090	24.0	75.2	DAQI
DAR BLEND	SUDAN	7.0353	26.4	0.120	39.0	102.2	DARB
DE RUYTER	NETHERLANDS	7.7431	42.3	0.180			DERU
DIDON	TUNISIA	7.4578	35.9	0.800	-6.0	21.2	DIDN
DJENO BLEND	CONGO	7.0899	27.7	0.310	3.0	37.4	DJNO
DOBA (CAMEROON)	CAMEROON	6.7712	20.5	0.001			DOBA
DOBA (CHAD)	CHAD	6.9714	25.0	0.100	-4.0	24.8	DOBB
DOROD	IRAN	7.3731	34.0	2.500			DORD
DRAUGEN	NORWAY	7.6565	40.4	0.140	-18.0	-0.4	DRAU
DUBAI	UNITED ARAB EMIRATES	7.2126	30.4	2.130	-43.0	-45.4	AEFA
DUC	DENMARK	7.3913	34.4	0.260	-45.0	-49.0	DANC

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
DUKHAN	QATAR	7.6902	41.1	1.220			DKHN
DULANG	MALAYSIA	7.5202	37.3	0.070	36.0	96.8	DULA
DURI	INDONESIA	6.7850	20.8	0.249	15.0	59.0	DURI

E

EA	NIGERIA	7.4131	34.9	0.080	0.0	32.0	EACO
EBOME	CAMEROON	7.2416	31.1	0.001	-63.0	-81.4	EBME
EKOFISK	UNITED KINGDOM	7.5382	37.7	0.230	-9.0	15.8	EKFS
EL SHARARA	LIBYA	7.7194	41.8	0.220	-51.0	-59.8	ELSA
ENFIELD	AUSTRALIA	6.8248	21.7	0.120			ENFL
EOCENE	KUWAIT	6.6863	18.6	4.560	-45.0	-49.0	EOCN
ERHA	NIGERIA	7.3731	34.0	0.180			ERHA
ES SIDER	LIBYA	7.5094	37.1	0.390	0.0	32.0	ESDR
ESCALANTE	ARGENTINA	6.8867	23.1	0.160	-9.0	15.8	ESCA
ESCRAVOS	NIGERIA	7.3507	33.5	0.150	-6.0	21.2	ESCR
ETAME	GABON	7.5068	37.0	1.000	33.0	91.4	ETAM
EZZAOUIA MELANGE	TUNISIA	7.8759	45.3	0.300	30.0	86.0	EZZA

F

FLOTTA BLEND	UNITED KINGDOM	7.5023	36.9	0.820	-9.0	15.8	FLOT
FOINAVEN	UNITED KINGDOM	7.0361	26.5	0.370	-15.0	5.0	FOIN
FORCADOS	NIGERIA	7.1059	28.0	0.230	-12.0	10.4	FORC
FOROOZAN	IRAN	7.1945	30.0	2.500	-13.0	8.6	FRZN
FORTIES BLEND	UNITED KINGDOM	7.6986	41.3	0.500	-15.0	5.0	FRTB
FRADE	BRAZIL	6.6594	18.0	0.700	-39.0	-38.2	FRAD

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
G							
GALEOTA MIX	TRINIDAD	7.6277	39.7	0.155	0.0	32.0	GLTM
GEISUM	EGYPT	6.9714	25.0	4.000	4.0	39.2	GISM
GERAGAI	INDONESIA	7.8996	45.8	0.055	-21.0	-5.8	GERA
GHARIB BLEND	EGYPT	6.8248	21.7	3.500	1.0	33.8	GRRB
GIRASSOL	ANGOLA	7.2283	30.8	0.320	-9.0	15.8	GIRA
GRANE	NORWAY	6.7084	19.1	0.810	-30.0	-22.0	GRAN
GRYPHON	UNITED KINGDOM	6.8822	23.0	0.360	-42.2	-44.0	GRYP
GULF SUEZ MIX	EGYPT	7.2167	30.5	1.600	-9.0	15.8	GSMX
GULLFAKS	NORWAY	7.4800	36.4	0.270	-21.0	-5.8	GLFK
H							
HAMACA	VENEZUELA	7.0251	26.2	1.360	5.0	41.0	HAMA
HAMACA BLEND	VENEZUELA	6.8381	22.0				HAMB
HANDIL	INDONESIA	7.8152	43.9	0.520	-27.0	-16.6	HAND
HANZE	NETHERLANDS	7.5654	38.3	0.280	-42.0	-43.6	HANZ
HARDING	UNITED KINGDOM	6.7799	20.7	0.590	-45.0	-49.0	HARD
HEAVY LOUISIANA SWEET	UNITED STATES	7.3106	32.6	0.370			HLSS
HEIDRUN	NORWAY	6.9760	25.1	0.550	-42.0	-43.6	HEID
HIBERNIA	CANADA	7.4227	35.1	0.438	7.0	44.6	HIBR
HOUT	SAUDI ARABIA	7.2391	31.0				HOUT
HUNGO	ANGOLA	7.1059	28.0	0.610	-28.0	-18.4	HUNG
HYDRA	ARGENTINA	7.9535	47.0	0.120	3.0	37.4	HYDR
I							
IMA	NIGERIA	7.4517	35.8	0.150	15.0	59.0	IMAC
IRANIAN HEAVY	IRAN	7.2060	30.3	2.500	-36.0	-32.8	IRHV
IRANIAN LIGHT	IRAN	7.3619	33.8	1.500	-16.0	3.2	IRLI
ISTHMUS	MEXICO	7.3507	33.5	1.020	-39.0	-38.2	ISTH

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
J							
JABIRU	AUSTRALIA	7.7081	41.5		15.0	59.0	JBRU
JANGSANMU (LF)	CHINA	6.6105	16.9	0.320			JANG
JASMINE	THAILAND	7.4183	35.0		27.0	80.6	JASM
JATIBARANG	INDONESIA	7.5247	37.4	0.173	27.0	80.6	JATI
JING ZHOU 9-3-1	CHINA	6.6820	18.5	0.260			JING
K							
KAJI SEMOGA	INDONESIA	7.5699	38.4	0.070	21.0	69.8	KAJI
KAKAP	INDONESIA	7.9484	46.9	0.020			KAKP
KALININGRAD	RUSSIA	7.5736	38.5	0.200			KALN
KARACHAGANAK	KAZAKHSTAN	7.8503	44.7	0.810	-60.0	-76.0	KARA
KASHAGAN	KAZAKHSTAN	7.8640	45.0	0.800			KASH
KAZAKH OIL BLEND	KAZAKHSTAN	7.5112	37.1	0.300	15.0	59.0	KZOB
KERAPU	INDONESIA	7.8640	45.0	0.214	30.0	86.0	KERA
KEYMIR	TURKMENISTAN	7.4446	35.6	0.210	18.0	64.4	KEYM
KGBASIN	INDIA	7.7527	42.5		9.0	48.2	KGBA
KHAFJI	SAUDI ARABIA	7.1059	28.0	2.850	-57.0	-70.6	KHFJ
KIDURONG	MALAYSIA	7.5809	38.7	0.096	-60.0	-76.0	KIDU
KIKEH	MALAYSIA	7.4871	36.6	0.069	21.0	69.8	KIKE
KIRKUK	IRAQ	7.3688	33.9	2.500	-30.0	-22.0	KIRK
KISSANJE	ANGOLA	7.2019	30.2	0.363	-46.0	-50.8	KISS
KOLE	CAMEROON	7.2167	30.5	0.001	-21.0	-5.8	KOLE
KUITO	ANGOLA	6.7821	20.8	0.500	-42.0	-43.6	KUIT
KUMKOL	KAZAKHSTAN	7.6010	39.1	0.170	15.0	59.0	KUMK
KUMKOL BLEND	KAZAKHSTAN	7.4800	36.4	0.910	0.0	32.0	KUMB
KUTUBU BLEND	PAPUA NEW GUINEA	7.8640	45.0	0.030	-1.0	30.2	KUTU
KUWAIT EXPORT	KUWAIT	7.2167	30.5	2.640	-57.0	-70.6	KTEX

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
L							
LABUAN	MALAYSIA	7.2060	30.3	0.090	12.0	53.6	LBUN
LAGO TRECO MEDIANO	VENEZUELA	6.9094	23.6	1.810	-26.0	-14.8	LGTO
LALANG	INDONESIA	7.5654	38.3	0.060	30.0	86.0	LALA
LAMINARIA	AUSTRALIA	8.5824	61.1	0.054	-54.0	-65.2	LMNR
LAVAN BLEND	IRAN	7.4525	35.8	1.540	-13.0	8.6	LVNB
LEGENDRE	AUSTRALIA	7.7882	43.3	0.070	12.0	53.6	LEGE
LEONA 20	VENEZUELA	6.7487	20.0				LN20
LEONA 22	VENEZUELA	6.8381	22.0		-45.0	-49.0	LN22
LEONA 24	VENEZUELA	6.9269	24.0	1.520	-35.0	-31.0	LN24
LIAO HE (XJ)	CHINA	6.7624	20.3	0.420			LIAO
LIGHT LOUISIANA SWEET	UNITED STATES	7.4800	36.4	0.130	-24.0	-11.2	LLSS
LIUHUA	CHINA	6.7306	19.6	0.320	6.0	42.8	LIUH
LIVERPOOL BAY BLEND	UNITED KINGDOM	7.8640	45.0	0.210	-21.0	-5.8	LVPB
LOKELE	CAMEROON	6.7712	20.5	0.001	-51.0	-59.8	LKLE
LORETO	PERU	6.6771	18.4	1.260	-27.0	-16.6	LORT
LOWER ZAKUM	UNITED ARAB EMIRATES	7.6500	40.2	1.030	-31.7	-25.1	LZKM
LUCINA BLEND	GABON	7.4183	35.0	0.069	27.0	80.6	LUCN
LUFENG	CHINA	7.3422	33.3	0.060	40.0	104.0	LUFE

M

MADURA	INDONESIA	7.9085	46.0	0.214	<-37.2	<-35	MDUR
MALT	BRAZIL	7.7968	43.5				MALT
MANDJI	GABON	7.2085	30.3	0.080	14.0	57.2	MANJ
MANIS	BRUNEI	7.3285	33.0	0.126	3.8	38.8	MANS
MARALAGO	VENEZUELA	6.8470	22.2	2.240	-16.0	3.2	MARA
MARIA INES	ARGENTINA	8.1523	51.5				MARS
MARIB LIGHT	YEMEN	7.9716	47.4	0.360	-27.0	-16.6	MARI

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
MARLIM	BRAZIL	6.7537	20.1	0.670	-32.0	-25.6	MARL
MARS BLEND	UNITED STATES	7.2167	30.5	1.810	-39.0	-38.2	MARB
MASA	MALAYSIA	7.8191	44.0	0.035	-24.0	-11.2	MASA
MASILA	YEMEN	7.2575	31.4	0.540	-9.0	15.8	MSIL
MATINLOC	PHILIPPINES	7.7565	42.6				MTNL
MAYA	MEXICO	6.8041	21.3	3.900	-21.0	-5.8	MAY
MAYNA	PERU	6.8159	21.5	0.590			MAYN
MCKEE	NEW ZEALAND	7.8279	44.2	<0.1	15.0	59.0	MKEE
MEDANITO	ARGENTINA	7.4131	34.9	0.160	7.0	44.6	MEDA
MELLITAH	LIBYA	7.7527	42.5	0.115	< -30		MELL
MERER	VENEZUELA	6.5705	16.0	2.650	-23.0	-9.4	MERE
MERER 16	VENEZUELA	6.5705	16.0				MERY
MERER BLEND	VENEZUELA	6.7624	20.3	2.310			MRYB
MERER HEAVY	VENEZUELA	6.5705	16.0				MRYH
MESA	VENEZUELA	7.1325	28.6	1.030	-24.0	-11.2	MESA
MESLA	LIBYA	7.5699	38.4	0.280	15.0	59.0	MSLA
MINAS	INDONESIA	6.9094	23.6	0.112	33.0	91.4	MNAS
MIRI LIGHT	MALAYSIA	7.2375	31.0	0.093	-9.0	15.8	MIRI
MIRZAANI	GEORGIA	7.2575	31.4	0.220			MIRZ
MITTELPLATE	GERMANY	6.7931	21.0	2.880	-		MITT
MIX AQUITAIN	FRANCE	7.2575	31.4		-15.0	5.0	MIXA
MONAGAS 18	VENEZUELA	6.6707	18.3				MNGS
MONDO	ANGOLA	7.1503	29.0	0.440	-54.0	-65.2	MOND
MOUDI	CAMEROON	7.3731	34.0		-63.0	-81.4	MOUD
MUBARRAZ	UNITED ARAB EMIRATES	7.5827	38.7	0.980			MBRZ
MUDI	INDONESIA	7.5382	37.7	0.240	27.0	80.6	MUDI
MUMBAI	INDIA	7.5518	38.0		-6.0	21.2	MUMB
MURBAN	UNITED ARAB EMIRATES	7.6324	39.8	0.790	-34.0	-29.2	MRBN
MUTINEER EXETER	AUSTRALIA	7.7968	43.5	0.033	12.0	53.6	MUTE

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
N							
NANG HAI LIGHT	CHINA	7.6185	39.5	0.050	30.0	86.0	NANH
NAPO	ECUADOR	6.6686	18.2	2.200			NAPO
NEMBA	ANGOLA	7.5873	38.8	0.205	-7.0	19.4	NEMB
NIDO	PHILIPPINES	7.0518	26.8				NIDO
NILE BLEND	SUDAN	7.3688	33.9	0.060	36.0	96.8	NILE
NKOSSA BLEND	CONGO	7.6724	40.7	< 0.05	9.0	48.2	NKSA
NORNE	NORWAY	7.2726	31.8	0.220	9.0	48.2	NORN
NOWROOZ	IRAN	6.7328	19.7	3.400			NWRZ
O							
OGUENDJO BLEND	GABON	7.3106	32.6	1.540	21.0	69.8	OGNJ
OKAREM	TURKMENISTAN	7.2441	31.1	0.300	24.0	75.2	OKRM
OKONO	NIGERIA	7.6407	40.0	0.100	15.0	59.0	OKON
OKRUZHNOE	RUSSIA	7.5736	38.5	0.170			OKRZ
OKWORI	NIGERIA	7.4960	36.8	0.180			OKWO
OLENDE	GABON	6.6216	17.2	1.560	33.0	91.4	OLEN
OLMECA	MEXICO	7.5736	38.5	0.950	-51.0	-59.8	OLMC
OMAN EXPORT BLEND	OMAN	7.3327	33.1	1.000	-42.0	-43.6	OMAN
ORIENTE	ECUADOR	6.9185	23.8	1.550	-12.0	10.4	ORNT
OSEBERG	NORWAY	7.5112	37.1	0.240	1.0	33.8	OSBG
ODUNA	TUNISIA	7.6388	40.0	0.240	-36.0	-32.8	ODNA
OYONG	INDONESIA	7.6093	39.3	0.178	24.0	75.2	OYON
P							
PALANCA	ANGOLA	7.5157	37.2	0.180	9.0	48.2	PALN
PALAWAN LIGHT	PHILIPPINES	7.4270	35.2				PLWN
PANYU	CHINA	7.2167	30.5	0.113			PANY
PATOS MARINZA	ALBANIA	6.5255	15.0				PATO

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
PATTANI	THAILAND	7.4183	35.0		9.0	48.2	PATT
PEMIUM ALBIAN (ATHABASCA)	CANADA	7.4402	35.5	0.040			PEMI
PENARA LUKUT	MALAYSIA	7.4889	36.6	0.065	36.0	96.8	PNRL
PENG LAI 19-3	CHINA	6.8070	21.3	0.303			PENG
PENINGTON	NIGERIA	7.3956	34.5	0.400	-3.0	26.6	PENC
PETROZUATA	VENEZUELA	6.7931	21.0	1.780			PTZU
PIERCE	UNITED KINGDOM	7.5563	38.1	0.130	-6.0	21.2	PIER
PLUTONIO	ANGOLA	7.3379	33.2	0.360	6.0	42.8	PLUT
PRINOS	GREECE	7.2391	31.0	0.330	-24.0	-11.2	PRNS
PUFFIN	AUSTRALIA	7.8017	43.6	0.050			PUFF
PZ HEAVY SYNCRUDE	VENEZUELA	6.7041	19.0				PZHS
PZ LIGTH SYNCRUDE	VENEZUELA	6.9714	25.0				PZLS

Q

QAROUN	EGYPT	7.3396	33.3	0.310	6.0	42.8	QARN
QATAR LAND	QATAR	7.6602	40.4		-49.0	-56.2	QTLN
QATAR MARINE	QATAR	7.3038	32.4	1.470	-39.0	-38.2	QTMR
QIN HUANG DAO (QHD)	CHINA	6.5925	16.5	0.261	-10.0	14.0	QINH
QUA IBOE	NIGERIA	7.4183	35.0	0.140	12.0	53.6	QUAI

R

RABI EXPORT BLEND	GABON	7.3439	33.4	0.300	30.0	86.0	RABB
RABI LIGHT	GABON	7.3930	34.5	0.067	24.0	75.2	RABI
RANG DONG	VIETNAM	7.5382	37.7	0.050	33.0	91.4	RANG
RAS BUDRAN	EGYPT	6.9491	24.5	2.450	-6.0	21.2	RSBD
RATAWI	KUWAIT	6.9360	24.2	3.871	-21.0	-5.8	RATA
RECON BOLIVIANO	BOLIVIA	7.8464	44.6		9.0	48.2	RCON
REMOUE	GABON	7.4270	35.2	0.060	21.0	69.8	REMB

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
RGN MISTURA	BRAZIL	7.1813	29.7	0.330	-21.0	-5.8	RGNM
RHEMOURA	TUNISIA	7.3285	33.0	1.000	-24.0	-11.2	RMRA
RONCADOR	BRAZIL	7.1479	29.0		-24.0	-11.2	RONK
ROSPO MARE	ITALY	6.3917	12.0	6.300	-1.0	30.2	ROSP
ROSS	UNITED KINGDOM	7.5873	38.8	0.150	3.0	37.4	ROSS
ROZEWE	POLAND	7.7795	43.1	0.070			ROZE
RUSSIAN EXPORT BLEND	RUSSIA	7.2667	31.6	1.300	-9.0	15.8	REBC
RUSSIAN LIGHT	RUSSIA	7.4578	35.9	0.600	-11.0	12.2	RULI

S

SABLE	SOUTH AFRICA	7.8190	44.0	0.001			SBLO
SAHARAN BLEND	ALGERIA	7.8572	44.9	0.080	-50.0	-58.0	SAHA
SAKHALIN BLEND	RUSSIA	7.0613	27.0	0.240			SAKB
SAKHALIN VITYAZ	RUSSIA	7.3913	34.4	0.220	-45.0	-49.0	SAKV
SALADIN	AUSTRALIA	7.6677	40.6		-39.0	-38.2	SLDN
SAN SEBASTIAN	ARGENTINA	9.0267	71.1		-23.0	-9.4	SANS
SANTA BARBARA	VENEZUELA	7.6093	39.3	0.469	-21.0	-5.8	SBAR
SANTA CRUZ	ARGENTINA	7.6407	40.0				STCZ
SARATOV	RUSSIA	7.7128	41.6	0.490	-3.0	26.6	SARA
SARIR	LIBYA	7.5202	37.3	0.130	22.0	71.6	SRIR
SAXI	ANGOLA	7.3064	32.5	0.320	-2.0	28.4	SAXI
SCHIEHALLION	UNITED KINGDOM	6.9938	25.5	0.470	-6.0	21.2	SCHI
SEMBILANG	INDONESIA	7.4183	35.0	0.150	37.5	99.5	SEMB
SEPINGGAN YAKIN	INDONESIA	7.3285	33.0	0.080	-7.0	19.4	SPGN
SERIA LIGHT EXPORT BLEND	BRUNEI	7.5364	37.7	0.091	4.8	40.6	SRIA
SHENGLI	CHINA	6.7400	19.8	1.690	21.0	69.8	SHEN
SIBERIAN LIGHT	RUSSIA	7.4332	35.4	1.010	-6.0	21.2	SBNE
SIRRI	IRAN	7.3422	33.3	1.710	-18.0	-0.4	SIRI

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
SIRTICA	LIBYA	7.6388	40.0	0.470	-3.0	26.6	SRCA
SOKOL	RUSSIA	7.6093	39.3	0.187			SOKO
SOROOSH	IRAN	6.7041	19.0		-27.0	-16.6	SRSR
SOUTH ARNE	DENMARK	7.5382	37.7	0.210	0.0	32.0	SARN
SOUTH BLEND	COLOMBIA	7.2019	30.2	0.600	-12.0	10.4	SBCO
SOUTHERN GREEN CANYON	UNITED STATES	7.2126	30.4	2.240			SGCN
STAG	AUSTRALIA	6.8906	18.7	0.100	-30.0	-22.0	STAG
STATFJORD	NORWAY	7.5382	37.7	0.286	-18.0	-0.4	STFJ
STYBARROW	AUSTRALIA	6.8739	22.8	0.280			STYB
SU TU DEN	VIETNAM	7.4623	36.0	0.040			SUTU
SUIZONG 36-1 (SC)	CHINA	6.4765	13.9	0.380			SUIZ
SUMATRAN LIGHT	INDONESIA	6.9094	23.6	0.112	33.0	91.4	SUMA
SUPSA	GEORGIA	6.8292	21.8	0.490	-9.0	15.8	SUPS
SYN	CANADA	6.7041	19.0				SYNC
SYRIAN HEAVY BLEND	SYRIA	6.9003	23.4	4.000	-30.0	-22.0	SODI
SYRIAN LIGHT BLEND	SYRIA	7.5175	37.2	0.760	-6.0	21.2	SYRL

T

TACHING	CHINA	7.2928	32.2	0.110			TACH
TALISMAN	AUSTRALIA	7.5736	38.5	0.170			TLSM
TANTAWAN	THAILAND	7.7527	42.5	0.050	16.0	60.8	TNTW
TAPIS BLEND	MALAYSIA	7.9105	46.1	0.030	16.0	60.8	TAPI
TENGIZ LIGHT	KAZAKHSTAN	7.8818	45.4	0.500	-21.0	-5.8	TENG
TERRA NOVA	CANADA	7.3464	33.4	0.531	12.0	53.6	TERR
THEVENARD BLEND	AUSTRALIA	7.6630	40.5	0.025	-20.0	-4.0	THEV
TIA JUANA LIGHT	VENEZUELA	7.2793	31.9	1.180	-29.0	-20.2	TIAJ
TIACA	INDONESIA	7.1544	29.1	2.007	-12.0	10.4	TAIK

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
TIERRA DEL FUEGO	ARGENTINA	7.7968	43.5	0.100	-20.0	-4.0	TDFO
TRITON	UNITED KINGDOM	7.6093	39.3	0.230	-6.0	21.2	TRIT
TROLL BLEND	NORWAY	7.1994	30.1	0.250	-48.0	-54.4	TROL

U

UDANG	INDONESIA	7.5382	37.7	0.020	35.0	95.0	UDNG
UMM SHAIF	UNITED ARAB EMIRATES	7.5157	37.2	1.390	-30.0	-22.0	UMSH
UPPER ZAKUM	UNITED ARAB EMIRATES	7.3870	34.3	1.330	-28.9	-20.0	UZKM
URALS	RUSSIA	7.2617	31.5	1.420	-18.0	-0.4	URAL

V

VAL D'AGRI	ITALY	7.5699	38.4	2.120	-24.0	-11.2	VALD
VASCONIA	COLOMBIA	6.9560	24.7	1.500	-16.0	3.2	VASC
VINCENT	AUSTRALIA	6.6286	17.3				VNCT

W

WAFRA	SAUDI ARABIA	6.9491	24.5	3.800			WFRA
WALIO	INDONESIA	8.0429	49.0	0.170	-23.0	-9.4	WALI
WANDOO	AUSTRALIA	6.7263	19.5		-42.0	-43.6	WAND
WENCHANG	CHINA	7.4227	35.1	0.117			WNCH
WEST CANADIAN SELECT	CANADA	6.7712	20.5	3.300			WCSL
WEST SENO	INDONESIA	7.5518	38.0	0.100	12.0	53.6	WSNO
WEST TEXAS INTERMEDIATE	UNITED STATES	7.5827	38.7	0.450	-36.0	-32.8	WTXI
WEST TEXAS SOUR	UNITED STATES	7.2709	31.7	1.280	-27.0	-16.6	WTXS
WESTERN DESERT	EGYPT	7.6789	40.9	0.315	3.0	37.4	WSTD
WHITE ROSE	CANADA	7.2035	30.2	0.310			WTRS
WIDURI	INDONESIA	7.2793	31.9	0.127	43.0	109.4	WIDU

< **BACK TO CONTENTS**

CRUDE OIL	COUNTRY	BBL/M. TON	API GRAVITY AT 60°F	SULPHUR WT%	PP°C	PP°F	CODE
WOOLLYBUTT	AUSTRALIA	8.0563	49.3		-43.0	-45.4	WOOL
WORRIOR (COOPER BASIN)	AUSTRALIA	7.8464	44.6	0.020	9.0	48.2	WORR
WYTCH FARM	UNITED KINGDOM	7.6949	41.2	0.080	-15.0	5.0	WYTC

X

XAN COBAN	GUATEMALA	6.5657	15.9	5.730			XANC
XI JIANG	CHINA	7.2525	31.3	0.090			XIJG
XIKOMBA	ANGOLA	7.3913	34.4	0.410	3.0	37.4	XIKO

Y

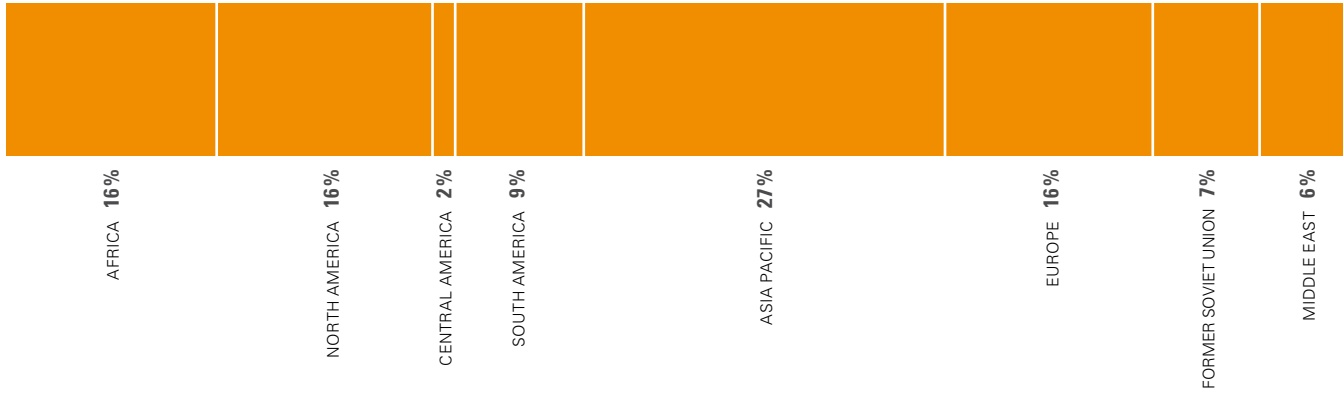
YOHO	NIGERIA	7.6407	40.0	0.160	3.0	37.4	YOHO
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Z

ZAAFARANA	EGYPT	6.8560	22.4	2.980	-3.9	25.0	ZFRN
ZAFIRO BLEND	EQUATORIAL GUINEA	7.2085	30.3	0.265	<-36	<-32	ZABL
ZAIKINSKAYA	RUSSIA	7.9155	46.2	0.205	-12.0	10.4	ZAIC
ZARZAITINE	TUNISIA	7.7833	43.2	0.160	-18.0	-0.4	ZARZ
ZARZAITINE MELANGE	TUNISIA	7.8036	43.7	0.100	-12.0	10.4	ZRZN
ZEIT BAY	EGYPT	7.4314	35.3	1.270	0.0	32.0	ZTBY
ZHAO DONG	CHINA	6.6771	18.4	0.250			ZHDG
ZUATA MEDIUM	VENEZUELA	6.9315	24.1	1.160	-60.0	-76.0	ZUTM
ZUATA OFF SPEC	VENEZUELA	6.7041	19.0				ZUTO
ZUATA SWEET	VENEZUELA	7.1277	28.5	0.240	-51.0	-59.8	ZUAT
ZUEITINA	LIBYA	7.5581	38.2	0.440	-1.0	30.2	ZUTN

CHARTS

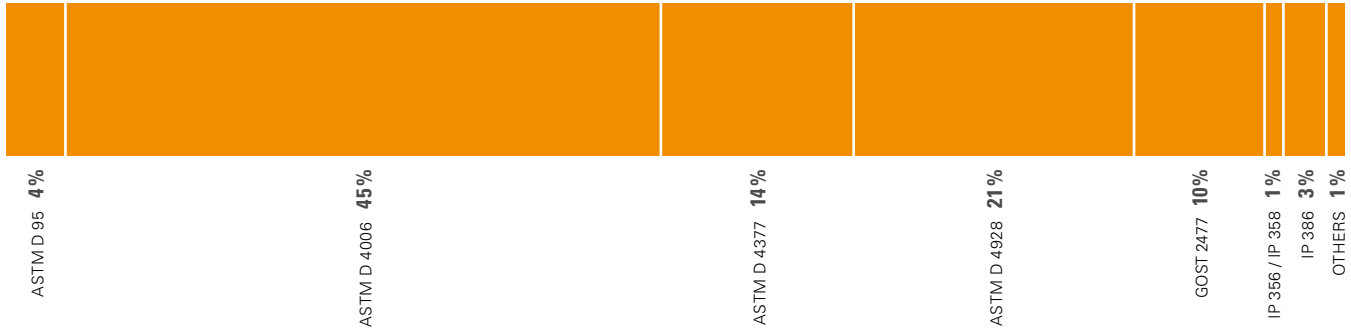
TERMINALS BY REGIONS



STANDARD UNITS



WATER TEST METHODS



OTHERS: DIN 51777 1% / ASTM D1744 1% / ASTM D 6304 1% / ISO 3733 1%

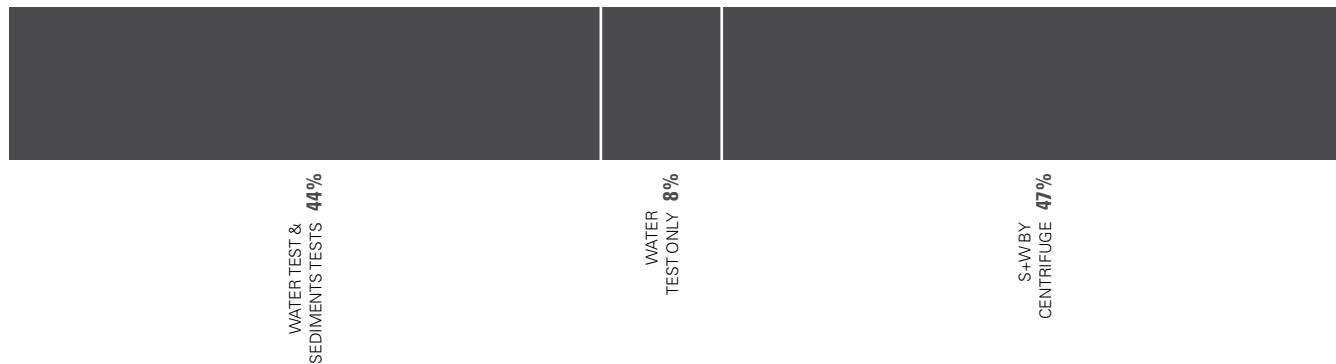
SEDIMENT TEST METHODS



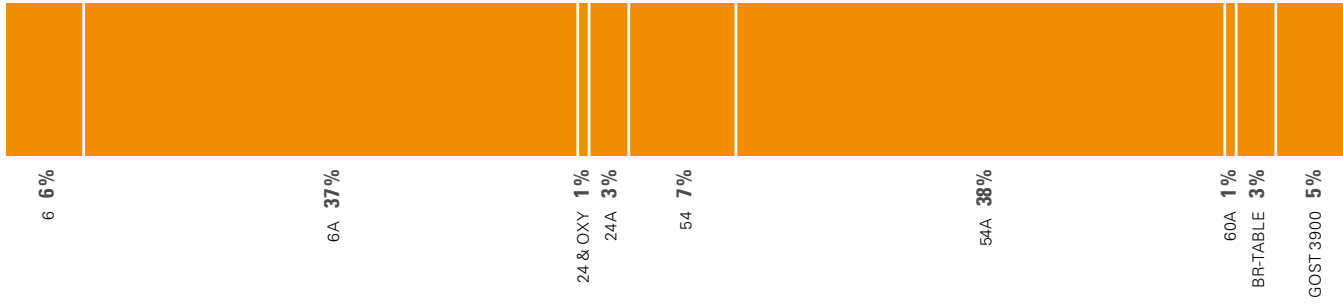
S+W BY CENTRIFUGE



S+W TESTS



VCF TABLE



SAMPLE SOURCE



* C = Ship Composite

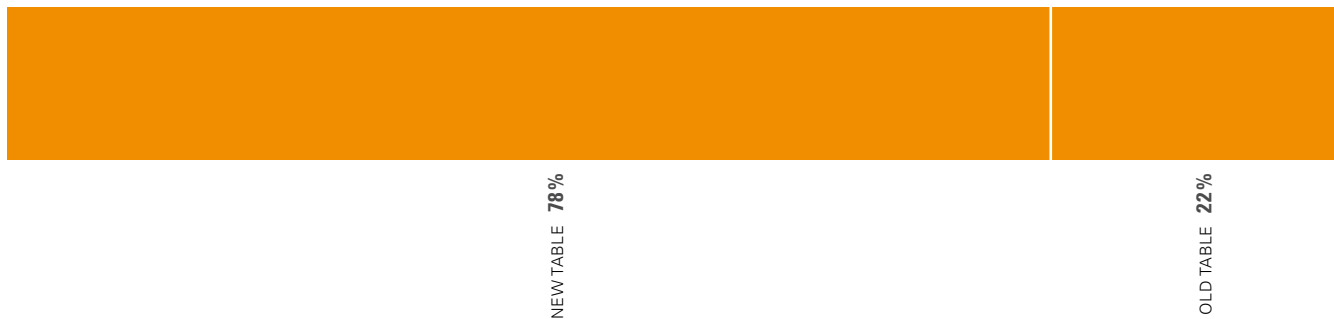
I = Automatic Inline

L = Line Manual

R = Shipboard

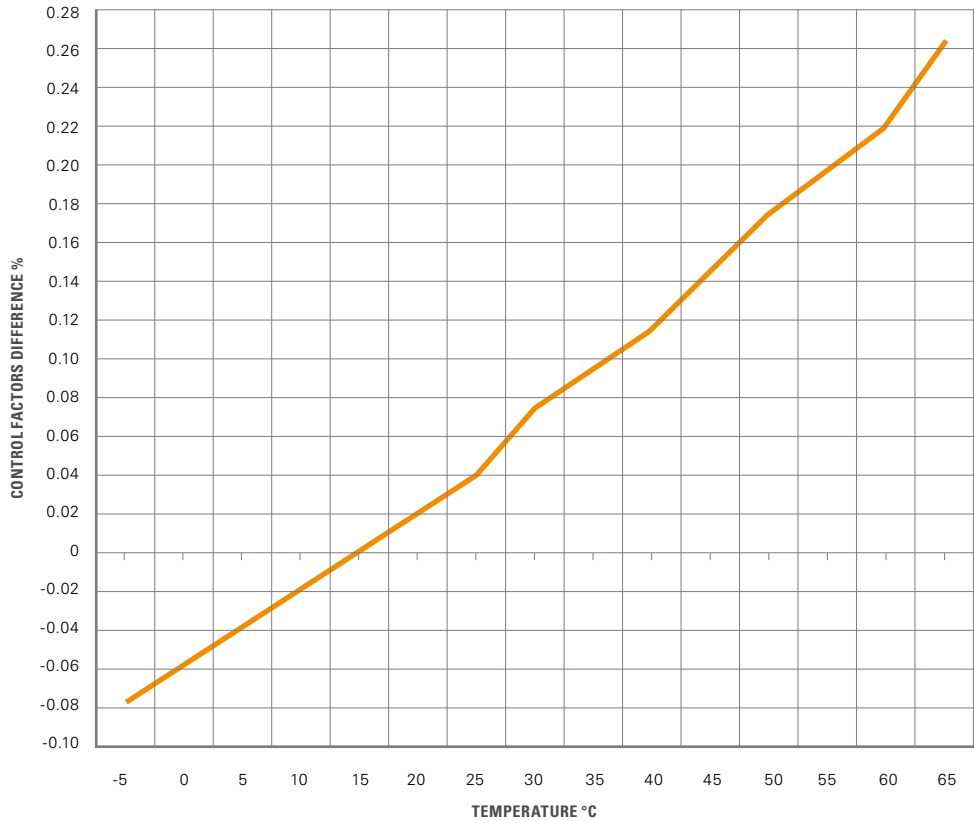
S = Shore Tank

OLD/NEW VCF TABLES



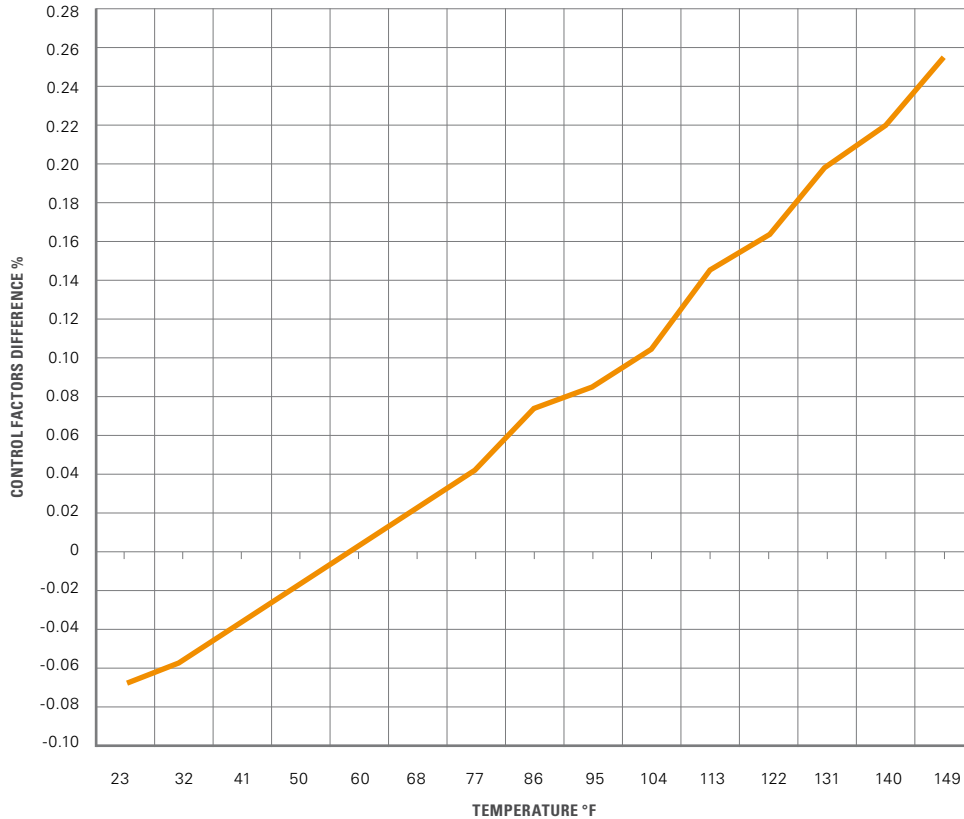
OLD/NEW VCF/CTL TABLES DIFFERENCE

TABLE 54A AGAINST 54 FOR AVERAGE DENSITY 15°C = 860.0



OLD/NEW VCF/CTL TABLES DIFFERENCE

TABLE 6A AGAINST 6 FOR API 60°F = 33.00



INTERRELATION OF UNITS OF MEASURE

TO CONVERT	MULTIPLY BY	TO CONVERT	MULTIPLY BY	TO CONVERT	MULTIPLY BY		
<i>Meters:</i>							
To yards	1.0936	<i>Pounds:</i>					
To feet	3.2808	To kilograms	0.453592	<i>Cubic feet:</i>			
To inches	39.370	<i>Kilograms:</i>					
<i>Yards:</i>							
To meter	0.9144	To pounds	2.20462	To cubic meters	0.0283169		
<i>Feet:</i>							
To meters	0.3048	<i>US barrels:</i>					
<i>Inches:</i>							
To centimetres	2.54	To cubic inches	9702	To imperial gallons	6.22883		
<i>Long tons:</i>							
To Pounds	2240.	To cubic feet	5.61458	To US barrels	0.178108		
To metric tons	1.01605	To US gallons	42	To US gallons	7.48052		
To short tons	1.12	To imperial gallons	34.9723	To liters	28.3169		
<i>Short tons:</i>							
To pounds	2000.	To liters	158.987	<i>Cubic inches:</i>			
To metric tons	0.907185	<i>US gallons:</i>					
To long tons	0.892857	To cubic inches	231	To US gallons	0.0043290		
<i>Metric tons:</i>							
To long tons	0.984206	To cubic feet	0.133681	To imperial gallons	0.00360465		
To short tons	1.10231	To US barrels	0.0238095	To liters	0.0163871		
<i>Imperial gallons:</i>							
<i>Liters:</i>							
<i>Cubic meters:</i>							
<i>Temperature:</i>							
Degrees Celsius to Fahrenheit (°C x 1.8) + 32							
Degrees Fahrenheit to Celsius (°F - 32) ÷ 1.8							

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WHEN YOU NEED TO BE SURE

