

## The Crude Oils and Their Key Characteristics

Country/Crude	API Gravity	Sulfur Content	Volume 1,000 b/d	Primary Loading Port
<b>Abu Dhabi</b>				
Abu Bukhoosh	31.6	2	30	Abu al-Bukhoosh
Murban	40.4	0.79	1,300	Jebel Dhanna
Thamama Condensate	57.5	0.11	180	Jebel Dhanna
Umm Shaif	37.2	1.31	300	Das Island
Upper Zakum	34	1.78	500	Das Island
Zakum	39.2	1.1	250	Das Island
<b>Algeria</b>				
Algerian Condensate	64.6	<0.01	400	Arzew
Saharan Blend	43.6	0.11	400	Arzew; Bejaia; Skikda
Zarzaitine	42.8	0.06	100	La Skhirra, Tunisia
<b>Angola</b>				
Cabinda	32.5	0.12	440	Cabinda
Girassol	31-32	n/a	200	Girassol FPSO
Kuito	19	0.68	70	Kuito FPSO
Nemba	38.7	0.19	140	Malongo Terminal
Palanca	38.6	0.14	130	Palanca
Soyo	39.5	0.12	150	Quinфуquena
<b>Argentina</b>				
Canadon Seco	25.7	0.2	162	Caleta Cordova; Caleta Olivia
Escalante	24.1	0.19	112	Bahia Blanca
Medanito	35.1	0.43	300	Bahia Blanca
Rincon	35.8	0.39	110	San Vicente, Chile
<b>Australia</b>				
Cossack	48.2	0.04	144	Cossack Pioneer FPSO
Gippsland	46.93	0.11	180	Westport
Griffin	55.5	0.02	41	Griffin Venture FPSO
Laminaria	58.5	0.03	130-170	Northern Endeavor FPSO
NW Shelf Condensate	59.5	<0.01	100	Withnell Bay
Wandoo	19.4	0.14	16	Wandoo Offshore Terminal
<b>Azerbaijan</b>				
Azeri Light	35.1	0.16	100	Novorossiysk
<b>Brazil</b>				
Marlim	20	0.7	520	Marlim FPSO
<b>Brunei</b>				
Brunei Condensate	72.6	<0.01	10	Seria
Brunei Light	40.3	0.06	50	Seria
Champion	25.4	0.13	50	Seria
Seria Light Export Blend	35.3	0.08	70	Seria
<b>Cameroon</b>				
Kole	32.2	0.37	58.8	Kole
<b>Canada</b>				
Bow River	24.9	2.48	250	Enbridge Pipe Line
Cold Lake	21.2	3.7	200	Westridge Terminal
Hibernia	35.8	0.36	150	Whiffen Head
Mixed Blend Sweet	39.5	0.39	256	Enbridge Pipe Line
Syncrude Sweet Blend	31.9	0.12	223	Alberta Oil Sands Pipeline; Enbridge Pipe Line; Trans Mountain Pipe Line
Terra Nova	33.2	0.48	100	Whiffen Head
<b>China</b>				
Daqing	32.3	0.11	1,100	Dairen (Dalian)
Lihua	22.7	0.2	300	Lihua
Nanghai Light	39.7	0.06	100	Huizhou Field Terminal
Shengli	22.5	0.9	500	Qingdao (T'sing Tao)
<b>Colombia</b>				
Cano Limon	31	0.48	119	Covenas
Cusiana	36.3	0.25	310	Covenas
Vasconia	25.3	0.81	70	Covenas
<b>Congo (Brazzaville)</b>				
Djeno	27.6	0.23	180	Djeno

N'kossa	46.5	0.03	70	N'Kossa
<b>Congo (Kinshasa)</b>				
Coco	31.6	0.12	20	Moanda Terminal
<b>Denmark</b>				
Siri	37.5	0.22	40	Siri
<b>Dubai</b>				
Dubai	31	2.04	190	Fateh
<b>Ecuador</b>				
Oriente	24.8	1.02	420	Esmeraldas
<b>Egypt</b>				
Belayim Blend	27.5	2.23	170	Wadi Feiran
Suez Blend	29.9	1.64	237	Ras Shukheir
<b>Equatorial Guinea</b>				
Ceiba	37	---	60	Sendje Berge
Zafiro	32.2	0.24	155	Zafiro Producer
<b>Gabon</b>				
Mandji	30.2	1.14	100	Cape Lopez
Rabi	34.6	0.06	100	Cape Lopez; Gamba
<b>Indonesia</b>				
Ardjuna	36.7	0.09	60	Ardjuna
Arun Condensate	57.5	<0.01	12	Blang Lancang
Attaka	42.3	0.09	47	Santan
Belida	45.1	0.02	110	Belida
Cinta	32.8	0.12	53	Cinta
Duri	20.8	0.2	250	Dumai
Handil Mix	32.2	0.1	66	Senipah
Minas	35	0.08	420	Dumai
Senipah	50.8	0.03	40	Senipah
Widuri	33.2	0.07	51	Widuri
<b>Iran</b>				
Azadegan			400	
Foroozan Blend	30.7	2.5	130	Kharg Island
Iran Heavy	30.2	1.77	900-1,000	Kharg Island
Iran Light	33.1	1.5	600-800	Kharg Island
Lavan Blend	34.3	1.87	200	Lavan Island
Sirri	30.3	2.26	310	Sirri Island
<b>Iraq</b>				
Basrah Light	33.7	1.95	1,800	Mina al-Bakr
Kirkuk	35.1	1.97	900	Ceyhan/Botas, Turkey
<b>Italy</b>				
Tempa Rossa	20.4	5.44	50	Taranto
<b>Kazakstan</b>				
Tengiz	47	0.55	260	Batumi; Novorossiysk
<b>Kuwait</b>				
Kuwait	32.4	2.55	2,400	Mina al-Ahmadi
<b>Libya</b>				
Amna	36.1	0.15	50	Ras Lanuf
Bouri	26.3	1.91	80	Bouri
Brega	39.8	0.2	120	Marsa El Brega
Es Sider	37	0.27	350	Es Sider
Sarir	37.6	0.16	320	Marsa El Hariga
Sirtica	42.2	0.4	60	Ras Lanuf
Zueitina	41.5	0.31	55	Zueitina
<b>Malaysia</b>				
Bintulu Condensate	66.2	0.04	85	Bintulu
Dulang	39	0.04	40	Dulang
Labuan	30.6	0.03	90	Labuan
Miri	29.6	0.07	80	Miri
Tapis	45.5	0.02	310	Tapis
<b>Mexico</b>				
Isthmus	33.4	1.25	713	Dos Bocas; Salina Cruz
Maya	21.8	3.33	1,900	Cayo Arcas; Salina Cruz
Olmecca	39.3	0.79	570	Dos Bocas
<b>Neutral Zone</b>				
Khafji	28.5	2.85	290	Ras al-Khafji
Wafra	24.2	4	320	Mina Saud
<b>Nigeria</b>				

Bonny Light	35.4	0.14	422	Bonny
Brass River	41.5	0.09	185	Brass River Terminal
Escravos	34.2	0.15	450	Escravos
Forcados	30	0.28	450	Forcados
Oso Condensate	47.4	0.05	140	Qua Iboe
Pennington	35	0.08	75	Pennington Terminal
Qua Iboe	36.4	0.12	460	Qua Iboe
<b>Norway</b>				
Asgard	40.9	0.195	180-190	Asgard Platform
Balder	23.08	0.69	75-85	Balder FPSO
Draugen	39.6	0.129	207	Draugen Terminal
Ekofisk	37.7	0.25	610	Tees River, Teesside, UK
Gulfaks	34.7	0.29	340	Gulfaks Terminal; Mongstad
Heidrun	28.1	0.426	224	Heidrun Platform; Mongstad
Jotun	37.7	0.25	90	
Njord	40.85	0.09	68	Njord Platform
Norne	32.5	0.19	220	Mongstad
Oseberg	37.6	0.23	400	Sture
Sleipner Condensate	58.7	0.028	144	Kaarsto
Statfjord	38.7	0.25	479	Mongstad; Statfjord Platform
Troll	27.2	0.27	333	Mongstad
Varg	35.98	0.25	29	Varg Platform
<b>Oman</b>				
Oman	33.3	1.06	900	Mina Al Fahal
<b>Papua New Guinea</b>				
Kutubu Blend	44.7	0.05	70	Kumul
<b>Qatar</b>				
Al-Shaheen	30	2.15	112	Al-Shaheen Platform
Dukhan	41.1	1.22	320	Umm Said
NFC II	56	0.19	55	Ras Laffan
Qatar Marine	36.2	1.6	230	Halul Island
<b>Russia</b>				
Sakhalin II	37	0.35	90	Molikpaq/Prigorodnoye
Siberian Light	35.6	0.46	115	Tuapse
Urals	32	1.3	1,000	Novorossiysk; Odessa; Ventspils
<b>Saudi Arabia</b>				
Arab Extra Light	38.4	1.16	1,300	Ras Tanura
Arab Heavy	28.7	2.79	700	Juaymah; Ras Tanura
Arab Light	34	1.78	5,000	Juaymah; King Fahd; Ras Tanura
Arab Medium	31.8	2.45	500	Juaymah; Ras Tanura
Arab Super Light	50.6	0.04	200	King Fahd
<b>Sharjah</b>				
Sharjah Condensate	50	0.08	30	Hamriyah Terminal
<b>Sudan</b>				
Nile Blend	32.3	0.05	190-200	Port Sudan
<b>Syria</b>				
Souedieh	24	4.05	100	Baniyas; Tartous
Syrian Light	36.5	0.66	400	Baniyas; Tartous
<b>United Kingdom</b>				
Alba	19.4	1.25	87	Cromarty Firth
Anasuria	39.5	0.33	55	Anasuria FPSO
Beryl	39.1	0.31	100	Beryl
Brent Blend	38.3	0.37	425	Sullom Voe
Captain	20	0.5	44	Captain FPSO
Flotta	37.07	0.83	150	Flotta
Foinaven	26.1	0.39	88	Flotta
Forties	41.6	0.24	785	Hound Point
Liverpool Bay	43.3	0.24	49	Liverpool Bay Platform
MacCulloch	32-37	----	60	Dagmar Maersk (North Sea Producer)
Pierce	37.8	0.15	50	Berge Hugin FPSO
Schiehallion	26.3	0.46	150	Sullom Voe
Triton	39.4	0.21	65	Triton FPSO
<b>United States</b>				
Alaskan North Slope	30	1.09	950	Valdez Marine Terminal
Light Louisiana Sweet	38.7	0.13	500	St. James, La.
Mars Blend	29.6	1.98	150	Clovelly, LOOP
West Texas Intermediate	39.6	0.24	365	Cushing, Okla.; Midland, Tex.

<b>Venezuela</b>				
Bachaquero	17.3	2.4	300	Punta Cardon
BCF 17	16.5	2.53	800	La Salina
Boscan	10.2	5.52	103	Bajo Grande
Furrial	30	0.88	315	Puerto La Cruz
Tia Juana Heavy	11	2.66	80	Punta Cardon
Tia Juana Light	31.9	1.18	240	La Salina
Zuata Sweet	32.2	0.07	180	
<b>Vietnam</b>				
Bach Ho	38.6	0.04	250	Bach Ho Platform
<b>Yemen</b>				
Marib	48.36	0.082	125	Ras Isa
Masila	30.5	0.62	230	Ash Shihr