

STATFJORD - SUMMARY OF MAJOR CUTS

	Whole Crude	Light Naphtha	Medium Naphtha	Heavy Naphtha	Kero	Atm Gas Oil	Light VGO	Heavy VGO	Vacuum Resid	Atm Resid
TBP Temp At Start, °C	Start	10	80	150	200	260	340	450	570	340
TBP Temp At End, °C	End	80	150	200	260	340	450	570	End	End
TBP Temp At Start, °F	Start	55	175	300	400	500	650	850	1050	650
TBP Temp At End, °F	End	175	300	400	500	650	850	1050	End	End
Yield at Start, vol%		3.7	10.8	25.6	36.5	47.5	64.3	81.4	91.3	64.3
Yield at End, vol%		10.8	25.6	36.5	47.5	64.3	81.4	91.3	100.0	100.0
Yield of Cut (wt% of Crude)		5.7	13.6	10.4	10.9	17.2	18.3	11.0	10.3	39.7
Yield of Cut (vol% of Crude)		7.1	14.8	10.9	11.0	16.7	17.1	9.9	8.7	35.7
Gravity, °API	39.4	82.8	54.4	48.1	41.0	34.5	28.0	22.1	12.2	22.2
Specific Gravity	0.8280	0.6604	0.7613	0.7878	0.8203	0.8526	0.8871	0.9214	0.9848	0.9203
Sulfur, wt%	0.26	0.00	0.00	0.01	0.04	0.19	0.37	0.56	0.88	0.56
Mercaptan Sulfur, ppm		1	3	3	2	1	0	0		
Nitrogen, ppm	858	0	0	0	3	56	598	1682	5358	2135
Hydrogen, wt%		16.2	14.1	15.3	14.6	13.9	13.2	12.4		
Viscosity @ 40 °C (104 °F), cSt	3.36			0.957	1.65	4.37	16.6	176	83832	194
Viscosity @ 50 °C (122 °F), cSt	2.74			0.840	1.43	3.48	12.3	95.7	24000	109
Viscosity @ 100 °C (212 °F), cSt	1.29			0.510	0.827	1.51	4.24	12.9	539	16.1
Viscosity @ 135 °C (275 °F), cSt	0.905			0.399	0.633	1.02	2.58	5.59	126	7.13
Freeze Point, °C				-61.000	-41.000	-4.000	32.0	48.0		
Freeze Point, °F				-77	-41	24	89	119		
Pour Point, °C	2			-63	-43	-8	29	46	33	38
Pour Point, °F	35			-81	-46	18	84	115	91	100
Smoke Point, mm (ASTM)				26	20	14	11			
Aniline Point, °C				51	60	72	86	98		
Aniline Point, °F				123	140	162	187	208		
Total Acid Number, mg KOH/g	0.03			0.0	0.1	0.0	0.1	0.1		
Cetane Index, ASTM D976				37	47	51				
Diesel Index				59	57	56	52	46		
Characterization Factor (K Factor)	12.0	12.8	11.7	11.8	11.8	11.9	12.0	12.1	11.9	12.0
Research Octane Number, Clear		66.2	55.7	39.0						
Motor Octane Number, Clear		64.6	53.4							
Paraffins, vol%		86.0	46.6	46.6	42.0	38.5	28.4			
Naphthenes, vol%		14.0	38.7	33.7	37.7	36.6	39.4			
Aromatics, vol%		0.0	14.7	19.7	20.3	24.9	32.2			
Thiophenes, vol%										
Molecular Weight	207	102	114	144	176	226	314	464	857	398
Gross Heating Value, MM BTU/bbl	5.74	4.83	5.37	5.53	5.70	5.86	6.03	6.19	6.44	6.18
Gross Heating Value, kcal/kg	10990	11610	11210	11120	11030	10920	10800	10670	10390	10660
Gross Heating Value, MJ/kg	46.0	48.6	46.9	46.5	46.2	45.7	45.2	44.7	43.5	44.6
Heptane Asphaltenes, wt%	0.2								1.5	0.4
Micro Carbon Residue, wt%	1.7								16.5	4.3
Ramsbottom Carbon, wt%	1.6								15.7	4.1
Vanadium, ppm	2								19	5
Nickel, ppm	1								11	3
Iron, ppm										

STATFJORD - DISTILLATION SUMMARY

		Whole Crude	Light Naphtha	Medium Naphtha	Heavy Naphtha	Kero	Atm Gas Oil	Light VGO	Heavy VGO	Vacuum Resid	Atm Resid
TBP Temp At Start, °C			10	80	150	200	260	340	450	570	340
TBP Temp At End, °C			80	150	200	260	340	450	570	End	End
TBP Temp At Start, °F			55	175	300	400	500	650	850	1050	650
TBP Temp At End, °F			175	300	400	500	650	850	1050	End	End
Yield at Start, vol%			3.7	10.8	25.6	36.5	47.5	64.3	81.4	91.3	64.3
Yield at End, vol%			10.8	25.6	36.5	47.5	64.3	81.4	91.3	100.0	100.0
Yield of Cut (wt% of Crude)			5.7	13.6	10.4	10.9	17.2	18.3	11.0	10.3	39.7
Yield of Cut (vol% of Crude)			7.1	14.8	10.9	11.0	16.7	17.1	9.9	8.7	35.7
TBP Distillation, vol%	°C Start		10	80	150	200	260	340	450	570	340
	°C 5%		25	81	151	207	264	348	459	573	353
	°C 10%		29	90	154	210	268	353	463	582	363
	°C 30%		36	99	165	221	285	372	480	623	405
	°C 50%		59	117	176	232	301	392	499	675	461
	°C 70%		66	132	187	243	318	414	522	732	534
	°C 90%		71	146	199	254	334	440	549	787	701
	°C 95%		72	149	202	257	339	447	557		801
	°C End		80	160	200	260	340	450	570	End	End
TBP Distillation, vol%	°F Start		50	175	300	400	500	650	850	1050	650
	°F 5%		77	177	304	405	508	658	858	1063	668
	°F 10%		84	194	309	410	515	667	865	1079	685
	°F 30%		97	211	329	430	545	701	896	1153	761
	°F 50%		138	242	349	450	574	737	931	1247	861
	°F 70%		150	269	369	470	604	777	972	1350	994
	°F 90%		159	294	390	490	634	824	1021	1448	1293
	°F 95%		162	300	395	495	642	837	1035		1473
	°F End		175	320	400	500	650	850	1050	End	End