

22777 Springwoods Village Parkway,
Spring, TX 77389

SBLIL14F

	Whole crude	Butane and Lighter IBP - 60F	Lt. Naphtha C5 - 165F	Hvy Naphtha 165 - 330F	Kerosene 330 - 480F	Diesel 480 - 650F	Vacuum Gas Oil 650 - 1000F	Vacuum Residue 1000F+
Cut volume, %	100.0	1.9	37.9	45.9	9.8	3.9	0.3	0.2
API Gravity,	61.1	111.5	82.9	51.8	42.3	31.4	26.9	(0.7)
Specific Gravity (60/60F),	0.735	0.582	0.660	0.772	0.814	0.869	0.893	1.082
Carbon, wt %	85.5	82.7	83.7	86.4	86.5	87.5	87.2	88.2
Hydrogen, wt %	14.5	17.3	16.3	13.6	13.5	12.5	12.7	11.3
Pour point, F	(117.8)			(172.2)	(113.5)	(57.3)	5.1	139.8
Neutralization number (TAN), MG/GM	0.009	0.000	0.000	0.005	0.022	0.048	0.103	0.333
Sulfur, wt%	0.003	0.000	0.000	0.000	0.004	0.021	0.075	0.203
Viscosity at 20C/68F, cSt	0.7	0.4	0.5	0.7	1.4	3.8	37.9	2,592,800.1
Viscosity at 40C/104F, cSt	0.5	0.4	0.4	0.6	1.1	2.6	16.6	81,699.7
Viscosity at 50C/122F, cSt	0.5	0.4	0.4	0.6	1.0	2.2	11.9	21,192.7
Mercaptan sulfur, ppm	0.6	0.1	0.2	0.4	0.3	0.1	0.0	0.0
Nitrogen, ppm	3.2	-	-	0.0	1.3	17.0	143.0	623.6
CCR, wt%	0.0						0.0	0.4
N-Heptane Insolubles (C7 Asphaltenes), wt%	0.0						-	0.6
Nickel, ppm	0.1							33.7
Vanadium, ppm	0.1							30.8
Calcium, ppm	0.5							
Reid Vapor Pressure (RVP) Whole Crude, psi	7.9							
Hydrogen Sulfide (dissolved), ppm	-							
Salt content, ptb	0.5							
Paraffins, vol %	57.6	100.0	88.4	32.1	50.9	39.0	36.7	0.1
Naphthenes, vol %	29.2	-	11.6	47.0	20.0	26.3	31.5	14.7
Aromatics (FIA), vol %	13.2	-	-	20.8	29.1	34.7	31.8	85.2
Distillation type, TBP								
IBP, F	38.4		62.8	165.6	330.4	480.5	650.2	1,000.6
5 vol%, F	72.1		70.2	171.1	334.4	484.5	652.1	1,005.9
10 vol%, F	80.3		73.3	177.3	338.9	489.1	654.4	1,011.5
20 vol%, F	106.9		79.5	189.9	348.7	498.2	659.5	1,022.6
30 vol%, F	139.2		85.7	202.8	359.6	507.7	665.2	1,034.0
40 vol%, F	165.4		101.6	216.3	371.6	517.8	671.7	1,046.1
50 vol%, F	192.6		108.5	230.3	384.9	529.8	679.6	1,059.4
60 vol%, F	221.6		125.4	245.1	400.0	544.4	689.9	1,074.4
70 vol%, F	253.8		135.3	260.8	417.0	562.2	704.9	1,092.2
80 vol%, F	293.0		145.1	278.2	436.2	583.1	735.5	1,114.9
90 vol%, F	375.3		155.0	299.1	457.5	609.0	979.3	1,148.8
95 vol%, F	465.7		160.0	312.6	468.7	625.9	990.9	1,178.8
EP, F	645.6		164.5	328.1	478.9	647.0	999.1	1,260.2
Freeze point, F				(160.7)	(101.8)	(46.0)		
Smoke point, mm				17.3	16.1	15.1		
Naphthalenes (D1840), vol%					5.8	10.4		
Viscosity at 100C/212F, cSt	0.4	0.3	0.3	0.4	0.6	1.2	3.7	261.6
Viscosity at 150C/302F, cSt	0.3	0.2	0.2	0.3	0.4	0.8	1.8	27.8
Cetane Index 1990 (D4737),				18.0	37.8	43.8		
Cloud point, F				(168.1)	(109.2)	(52.9)		
Aniline pt, F					116.6	155.5	182.5	