

22777 Springwoods Village Parkway,
Spring, TX 77389

STATB16X

	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	3.0	8.2	19.7	15.9	17.8	25.4	9.9
API Gravity,	39.4	124.7	82.9	56.3	43.9	35.6	26.1	12.8
Specific Gravity (60/60F),	0.828	0.552	0.660	0.754	0.807	0.847	0.898	0.980
Carbon, wt %	86.0	82.4	83.8	85.8	86.0	86.4	86.6	86.5
Hydrogen, wt %	13.8	17.6	16.2	14.2	14.0	13.5	13.0	12.5
Pour point, F	(51.7)			(96.4)	(57.9)	14.3	101.8	113.3
Neutralization number (TAN), MG/GM	0.049	0.000	0.000	0.002	0.015	0.056	0.033	0.229
Sulfur, wt%	0.203	0.000	0.000	0.002	0.010	0.111	0.351	0.711
Viscosity at 20C/68F, cSt	5.1	0.4	0.6	0.9	1.8	6.3	140.4	1,186,638.5
Viscosity at 40C/104F, cSt	3.4	0.4	0.5	0.7	1.3	3.8	45.0	62,705.8
Viscosity at 50C/122F, cSt	2.9	0.4	0.4	0.6	1.2	3.1	28.6	19,374.4
Mercaptan sulfur, ppm	12.0	0.1	1.3	5.5	0.6	0.1	0.0	0.0
Nitrogen, ppm	841.2	-	-	0.0	0.9	42.7	880.6	5,017.7
CCR, wt%	1.8						0.1	15.1
N-Heptane Insolubles (C7 Asphaltenes), wt%	0.2						-	1.7
Nickel, ppm	1.1							9.6
Vanadium, ppm	1.7							14.8
Calcium, ppm	0.5							
Reid Vapor Pressure (RVP) Whole Crude, psi	7.8							
Hydrogen Sulfide (dissolved), ppm	-							
Salt content, ptb	3.0							
Paraffins, vol %	40.9	100.0	85.8	45.2	41.9	35.9	27.1	5.5
Naphthenes, vol %	35.7	-	14.2	41.8	42.1	44.8	38.6	24.2
Aromatics (FIA), vol %	23.4	-	-	13.1	15.9	19.3	34.3	70.3
Distillation type, TBP								
IBP, F	(78.8)		60.7	165.9	330.7	480.8	651.3	1,001.1
5 vol%, F	96.2		66.5	173.6	337.3	488.2	663.5	1,010.9
10 vol%, F	153.8		72.3	181.9	344.8	496.5	677.2	1,022.3
20 vol%, F	236.7		83.5	198.0	359.8	513.1	705.5	1,046.6
30 vol%, F	321.5		100.2	213.8	375.1	529.6	735.0	1,073.5
40 vol%, F	416.2		106.8	229.5	390.5	546.1	765.8	1,103.6
50 vol%, F	509.0		122.7	245.4	405.8	562.6	798.1	1,138.0
60 vol%, F	602.6		132.6	261.5	420.9	579.3	831.9	1,178.1
70 vol%, F	708.0		141.6	278.0	435.9	596.3	867.7	1,226.0
80 vol%, F	832.5		149.9	294.9	450.6	613.7	906.4	1,285.3
90 vol%, F	997.2		157.6	312.2	465.3	631.6	949.6	1,364.2
95 vol%, F	1,135.6		161.3	321.0	472.7	640.7	973.7	1,417.2
EP, F	1,416.4		164.6	329.1	479.3	649.1	997.2	1,496.1
Freeze point, F				(84.1)	(46.4)	26.7		
Smoke point, mm				29.7	22.2	14.1		
Naphthalenes (D1840), vol%					2.3	6.9		
Viscosity at 100C/212F, cSt	1.5	0.3	0.3	0.4	0.7	1.4	6.1	364.9
Viscosity at 150C/302F, cSt	0.9	0.2	0.2	0.3	0.5	0.9	2.5	42.4
Cetane Index 1990 (D4737),				29.9	44.6	56.6		
Cloud point, F				(93.0)	(53.4)	19.3		
Aniline pt, F					140.8	166.9	199.1	