

22777 Springwoods Village Parkway,
Spring, TX 77389

BASRH16B

	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	1.6	4.6	11.3	11.4	14.2	29.3	27.5
API Gravity,	24.0	125.6	87.7	60.5	46.0	32.9	18.7	1.4
Specific Gravity (60/60F),	0.910	0.550	0.646	0.737	0.797	0.861	0.942	1.064
Carbon, wt %	84.2	82.4	83.6	85.4	85.5	85.0	84.0	83.4
Hydrogen, wt %	12.5	17.6	16.4	14.6	14.2	13.0	11.8	11.0
Pour point, F	(50.4)			(103.5)	(59.8)	6.0	88.5	123.1
Neutralization number (TAN), MG/GM	0.237	0.000	0.003	0.035	0.097	0.203	0.339	0.286
Sulfur, wt%	3.831	0.001	0.007	0.055	0.394	2.054	4.058	7.006
Viscosity at 20C/68F, cSt	57.3	0.4	0.5	0.8	1.7	5.8	216.4	13,316,629,914.2
Viscosity at 40C/104F, cSt	24.3	0.4	0.5	0.7	1.3	3.5	64.7	117,774,255.3
Viscosity at 50C/122F, cSt	17.1	0.3	0.4	0.6	1.1	2.9	40.0	17,583,224.0
Mercaptan sulfur, ppm	123.9	10.9	59.4	77.1	95.4	68.9	10.0	0.1
Nitrogen, ppm	1,844.8	-	-	0.0	0.5	72.8	1,036.8	4,686.9
CCR, wt%	10.1						0.6	30.8
N-Heptane Insolubles (C7 Asphaltenes), wt%	5.3						-	16.5
Nickel, ppm	20.6							63.6
Vanadium, ppm	79.6							245.6
Calcium, ppm	4.5							
Reid Vapor Pressure (RVP) Whole Crude, psi	5.3							
Hydrogen Sulfide (dissolved), ppm	-							
Salt content, ptb	4.2							
Paraffins, vol %	33.7	100.0	94.3	65.9	57.4	38.0	24.1	2.4
Naphthenes, vol %	17.3	-	5.7	21.5	24.5	33.7	21.5	4.0
Aromatics (FIA), vol %	49.1	-	-	12.6	18.1	28.3	54.4	93.6
Distillation type, TBP								
IBP, F	(12.8)		60.8	166.0	330.8	480.9	651.7	1,001.9
5 vol%, F	142.5		67.8	174.5	338.1	488.7	667.0	1,018.7
10 vol%, F	223.7		72.7	183.7	346.2	497.4	683.9	1,037.9
20 vol%, F	364.7		82.5	201.3	362.2	514.7	717.6	1,077.5
30 vol%, F	492.6		99.0	218.2	377.8	531.9	751.1	1,119.0
40 vol%, F	612.7		105.2	234.6	393.1	549.0	784.8	1,162.7
50 vol%, F	728.6		111.5	250.7	408.1	566.1	818.7	1,208.6
60 vol%, F	844.2		129.9	266.5	422.8	583.1	853.1	1,257.1
70 vol%, F	967.3		139.5	282.2	437.3	600.0	888.2	1,308.7
80 vol%, F	1,107.8		148.5	298.0	451.7	616.7	924.2	1,364.1
90 vol%, F	1,275.7		156.9	314.0	465.9	633.4	961.4	1,424.5
95 vol%, F	1,374.8		161.0	322.0	473.0	641.7	980.5	1,459.1
EP, F	1,489.5		164.6	329.2	479.3	649.2	998.0	1,516.9
Freeze point, F				(91.7)	(48.8)	18.8		
Smoke point, mm				31.8	23.7	13.5		
Naphthalenes (D1840), vol%					0.9	8.6		
Viscosity at 100C/212F, cSt	5.0	0.3	0.3	0.4	0.7	1.3	7.8	26,328.0
Viscosity at 150C/302F, cSt	2.3	0.2	0.2	0.3	0.4	0.8	3.1	740.9
Cetane Index 1990 (D4737),				40.0	49.6	50.9		
Cloud point, F				(99.5)	(55.6)	10.7		
Aniline pt, F					140.7	152.2	163.0	