

22777 Springwoods Village Parkway,
Spring, TX 77389

TRITN15X

	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	2.1	6.5	16.3	15.3	18.5	28.0	13.3
API Gravity,	36.9	127.7	82.2	56.2	44.5	36.1	27.0	14.3
Specific Gravity (60/60F),	0.840	0.546	0.662	0.754	0.804	0.844	0.893	0.971
Carbon, wt %	85.9	82.3	83.8	85.9	85.9	86.2	86.3	86.2
Hydrogen, wt %	13.6	17.7	16.2	14.1	14.0	13.6	13.1	12.4
Pour point, F	23.9			(143.8)	(56.9)	21.1	98.5	74.6
Neutralization number (TAN), MG/GM	0.108	0.032	0.032	0.066	0.163	0.219	0.086	0.033
Sulfur, wt%	0.393	0.000	0.000	0.002	0.018	0.184	0.532	1.268
Viscosity at 20C/68F, cSt	7.8	0.4	0.5	0.8	1.8	6.3	97.2	120,652.6
Viscosity at 40C/104F, cSt	4.5	0.3	0.4	0.6	1.3	3.8	34.7	11,822.4
Viscosity at 50C/122F, cSt	3.6	0.3	0.4	0.6	1.2	3.1	23.0	4,626.3
Mercaptan sulfur, ppm	3.0	0.1	0.7	1.9	2.1	1.4	0.3	0.0
Nitrogen, ppm	969.4	-	-	0.0	0.2	49.0	721.3	4,810.6
CCR, wt%	1.9						0.1	12.2
N-Heptane Insolubles (C7 Asphaltenes), wt%	0.5						-	3.2
Nickel, ppm	2.5							16.4
Vanadium, ppm	7.5							48.4
Calcium, ppm	0.5							
Reid Vapor Pressure (RVP) Whole Crude, psi	6.9							
Hydrogen Sulfide (dissolved), ppm	-							
Salt content, ptb	5.3							
Paraffins, vol %	38.5	100.0	85.4	46.5	49.1	35.5	27.2	4.5
Naphthenes, vol %	34.8	-	14.6	38.4	33.5	46.7	41.5	18.5
Aromatics (FIA), vol %	26.8	-	-	15.1	17.4	17.8	31.3	76.9
Distillation type, TBP								
IBP, F	(47.5)		61.1	165.9	330.8	480.9	651.4	1,001.2
5 vol%, F	121.5		70.5	173.5	337.9	488.5	663.6	1,012.7
10 vol%, F	179.4		79.4	181.7	345.7	497.0	677.5	1,025.9
20 vol%, F	279.7		94.3	197.7	361.3	513.8	706.1	1,054.1
30 vol%, F	382.3		106.4	213.7	376.8	530.6	735.8	1,084.9
40 vol%, F	478.6		117.0	229.8	392.1	547.3	766.8	1,119.1
50 vol%, F	569.4		126.4	246.2	407.2	564.0	799.0	1,157.3
60 vol%, F	663.1		135.0	262.9	422.2	580.9	833.0	1,200.7
70 vol%, F	768.3		143.1	279.7	436.9	597.8	869.2	1,250.7
80 vol%, F	893.0		150.7	296.4	451.5	615.0	908.3	1,310.1
90 vol%, F	1,069.0		158.0	313.2	465.8	632.3	951.3	1,384.4
95 vol%, F	1,212.3		161.5	321.6	472.9	641.1	974.8	1,431.4
EP, F	1,445.2		164.7	329.2	479.3	649.1	997.4	1,502.1
Freeze point, F				(131.5)	(44.3)	33.8		
Smoke point, mm				25.8	22.5	19.6		
Naphthalenes (D1840), vol%					1.5	6.3		
Viscosity at 100C/212F, cSt	1.6	0.2	0.3	0.4	0.7	1.4	5.5	182.4
Viscosity at 150C/302F, cSt	0.9	0.2	0.2	0.3	0.5	0.9	2.4	29.8
Cetane Index 1990 (D4737),				30.1	46.2	57.9		
Cloud point, F				(139.2)	(51.4)	27.0		
Aniline pt, F					144.1	171.5	204.0	