

EBOK14

		Whole								
		crude - 200 to 1499	Butane and Lighter -200 to 60	Lt. Naphtha C5- 165F 60 to 165	Hvy Naphtha 165 - 330F 165 to 330	Kerosene 330 - 480F 330 to 480	Diesel 480 - 650F 480 to 650	Vacuum Gas Oil 650 - 1000F 650 to 1000	Vacuum Residue 1000F+ 1000 to 1499	
		IBP,F,BP,F	IBP,60,F	60,165,F	165,330,F	330,480,F	480,650,F	650,1000,F	1000,F,BP,F	
Cut volume, %	YLD,V,%	100	0.65	1.69	5.94	12.22	22.88	38.30	18.32	
API Gravity	API,none	20.3003	119.44	84.88	53.98	34.65	24.28	14.30	6.05	
Specific Gravity (60/60F)	SPG,60F,none	0.93215	0.56	0.65	0.76	0.85	0.91	0.97	1.03	
Carbon, wt %	_C,%	87.0006	82.52	83.84	85.43	87.09	87.54	87.31	86.44	
Hydrogen, wt %	_H2,%	12.2456	17.48	16.16	14.57	12.83	12.07	11.70	12.27	
Pour point, F	PPT,F	-35.5	-248.80	-226.76	-195.40	-169.63	-133.16	57.57	128.60	
Neutralization number (TAN), MG/GM	ACI,mgKOH/g	2.81781	0.00	0.00	0.00	0.16	2.50	4.25	2.71	
Sulfur, wt%	SUL,%	0.38894	0.00	0.00	0.01	0.07	0.25	0.44	0.74	
Viscosity at 20C/68F, cSt	VIS,20C,cSt	134.828	0.44	0.57	0.98	2.44	13.73	8219.56	408983378905.78	
Viscosity at 40C/104F, cSt	VIS,40C,cSt	42.6943	0.37	0.47	0.76	1.67	6.65	827.45	895073723.86	
Viscosity at 50C/122F, cSt	VIS,50C,cSt	27.0969	0.35	0.43	0.68	1.42	4.98	343.64	81023985.96	
Mercaptan sulfur, ppm	MER,ppm	0.6	1.84	5.47	3.35	2.35	1.24	0.27	0.02	
Nitrogen, ppm	TN2,ppm	3963.94	0.00	0.00	0.31	9.65	205.29	2883.50	13686.07	
CCR, wt%	MCRT,%	4.19748	0.00	0.00	0.00	0.00	0.00	0.39	20.00	
N-Heptane Insolubles (C7 Asphaltenes), wt%	AS7,%	0.02018	0.00	0.00	0.00	0.00	0.00	0.00	0.10	
Nickel, ppm	NIK,ppm	30.952	0.00	0.00	0.00	0.00	0.00	0.00	153.08	
Vanadium, ppm	VAN,ppm	5.16964	0.00	0.00	0.00	0.00	0.00	0.00	25.57	
Calcium, ppm	_CA,ppm	8.23								
Reid Vapor Pressure (RVP) Whole Crude, psi	RVP,psi	3.2	87.59	15.30	0.98	0.03	0.00	0.00	0.00	
Hydrogen Sulfide (dissolved), ppm	HSD,ppm	0								
Salt content, ptb	SAL,lb/1000bbl	13.9								
Paraffins, vol %	PAR,V,%	12.5843	99.97	84.02	28.59	14.57	12.33	9.49	1.28	
Naphthenes, vol %	NAP,V,%	39.5064	0.00	15.98	68.19	53.47	49.14	34.62	24.18	
Aromatics (FIA), vol %	ARO,V,%	47.909	0.00	0.00	3.22	31.96	38.53	55.90	74.54	
Distillation type, D-		86	86	86	86	86	86	1160	1160	
ASTM IBP, F	D86P,0.5%,F	D1160P,0.5%,F	89.8333	-99.28	91.30	215.33	371.85	511.90	678.38	1027.12
5 vol%, F	D86P,5%,F	D1160P,5%,F	282.601	-73.29	92.52	219.72	375.00	515.42	686.58	1034.83
10 vol%, F	D86P,10%,F	D1160P,10%,F	383.407	-44.41	93.16	223.29	377.96	517.84	693.24	1040.98
20 vol%, F	D86P,20%,F	D1160P,20%,F	483.75	11.22	95.20	233.65	387.28	526.06	718.05	1064.77
30 vol%, F	D86P,30%,F	D1160P,30%,F	553.127	24.78	97.24	242.62	395.46	533.95	743.71	1090.66
40 vol%, F	D86P,40%,F	D1160P,40%,F	614.538	29.07	105.88	253.04	404.91	544.24	770.56	1119.56
50 vol%, F	D86P,50%,F	D1160P,50%,F	677.247	37.01	112.52	262.55	413.43	554.24	798.78	1152.02
60 vol%, F	D86P,60%,F	D1160P,60%,F	750.942	39.51	123.71	272.03	421.76	565.05	832.79	1193.46
70 vol%, F	D86P,70%,F	D1160P,70%,F	836.013	42.01	131.01	280.96	429.54	575.74	869.16	1241.94
80 vol%, F	D86P,80%,F	D1160P,80%,F	954.157	44.37	136.36	289.55	436.93	587.18	908.50	1300.67
90 vol%, F	D86P,90%,F	D1160P,90%,F	1105.05	46.74	141.14	297.55	443.82	598.67	951.67	1376.68
95 vol%, F	D86P,95%,F	D1160P,95%,F	1151.61	50.15	148.37	304.90	451.73	607.98	975.08	1426.18
ASTM EP, F	D86P,99.5%,F	D1160P,99.5%,F	1221.75	61.84	155.16	315.80	459.97	619.41	999.37	1499.84
Freeze point, F	FPT,F		97.753	-237.69	-215.79	-184.37	-158.67	-122.83	72.90	139.77
Smoke point, mm	SMO,mm		8.46552	35.10	32.08	25.45	17.13	10.06	4.00	1.40
Naphthalenes (D1840), vol%	NPH,V,%		7.50338	0.00	0.00	0.00	0.64	7.18	9.96	10.74
Viscosity at 100C/212F, cSt	VIS,100C,cSt		5.79019	0.26	0.30	0.42	0.76	1.81	21.03	30588.59
Viscosity at 150C/302F, cSt	VIS,150C,cSt		2.39855	0.20	0.23	0.31	0.48	0.97	5.11	539.36
Cetane Index 1990 (D4737)	CET,none		16.3026	141.88	49.34	30.40	29.21	33.56	33.40	17.45
Cloud point, F	CPT,F		89.0388	-244.93	-223.02	-191.63	-166.02	-127.90	64.71	132.42
Aniline pt, F	ANI,F		133.731	183.86	157.84	127.75	126.06	120.71	135.38	148.43