

Palanca Crude Oil Assay

WHOLE CRUDE	
Gravity, °API	37.2
Specific Gravity	0.84
Sulfur, wt %	0.18
Nitrogen, ppm	981
Pour Point °F	48.2
Pour Point °C	9
Acid Number, mg KOH/g	0.03
Back-Blended Acid, mg KOH/g	0.02
Viscosity @ 40 °C (104 °F), cSt	4.51
Viscosity @ 50 °C (122 °F), cSt	3.89
Asphaltenes, C7, %	0.40
Nickel, ppm	1.65
Vanadium, ppm	1.15
Characterization Factor, K	12.11

TBP YIELDS, VOL %	
Butanes and Lighter	3.26
Light Gasoline (55-175 °F)	5.29
Light Naphtha (175-300 °F)	13.34
Heavy Naphtha (300-400 °F)	10.45
Kerosene (400-500 °F)	11.32
Atm. Gas Oil (500-650 °F)	16.09
Lt Vacuum Gas Oil (650-800 °F)	13.70
Hvy Vacuum Gas Oil (800-1050 °F)	16.74
Vacuum Residuuum (1050 °F+)	9.82

LIGHT GASOLINE (55-175 °F)	
Gravity, °API	77.4
Specific Gravity	0.68
Mercaptan Sulfur, ppm	3.67
Octane Number, Research, Clear	72.4

LIGHT NAPHTHA (175-300 °F)	
Gravity, °API	57.1
Specific Gravity	0.75
Mercaptan Sulfur, ppm	5.89
Naphthenes, vol %	41.22
Aromatics, vol %	11.09
Octane Number, Research, Clear	63.2

HEAVY NAPHTHA (300-400 °F)	
Gravity, °API	47.8
Specific Gravity	0.79
Sulfur, wt %	0.03
Mercaptan Sulfur, ppm	6.32
Naphthenes, vol %	43.1
Aromatics, vol %	15.78
Smoke Point, mm (ASTM)	26.4

KEROSENE (400-500 °F)	
Gravity, °API	40.2
Specific Gravity	0.82
Sulfur, wt %	0.09
Mercaptan Sulfur, ppm	5.39
Naphthenes, vol %	43.25
Aromatics, vol %	18.73
Freezing Point, °F	-44.2
Freezing Point, °C	-42.3
Smoke Point, mm (ASTM)	21.6
Acid Number, mg KOH/g	0.01
Viscosity @ 50 °C (122 °F), cSt	1.49

ATM. GAS OIL (500-650 °F)	
Gravity, °API	35
Specific Gravity	0.85
Sulfur, wt %	0.15
Nitrogen, ppm	85.2
Acid Number, mg KOH/g	0.02
Pour Point °F	14
Pour Point °C	-10
Viscosity @ 50 °C (122 °F), cSt	3.2
Cetane Index	57.7
Characterization Factor, K	11.9

Palanca Crude Oil Assay

ATM. RESIDUUM (650 °F+)	
Yield, vol%	40.25
Gravity, °API	23
Specific Gravity	0.92
Sulfur, wt %	0.33
Nitrogen, ppm	2190
MCR, wt%	3.56
Asphaltenes, C7, %	0.91
Nickel, ppm	3.73
Vanadium, ppm	2.6
Pour Point °F	104.2
Pour Point °C	40.1
Viscosity @ 50 °C (122 °F), cSt	74.3
Viscosity @ 100 °C (212 °F), cSt	13.1
Characterization Factor, K	12.14

LT VAC. GAS OIL (650-800 °F)	
Gravity, °API	30.8
Specific Gravity	0.87
Sulfur, wt %	0.22
Nitrogen, ppm	823
Naphthenes, vol %	43.32
Paraffins, vol%	30.29
Pour Point °F	72.3
Pour Point °C	22.4
Acid Number, mg KOH/g	0.02
Aniline Point, °F	189.9
Aniline Point, °C	87.7
Hydrogen, wt%	13.23
Viscosity @ 50 °C (122 °F), cSt	10.2
Viscosity @ 100 °C (212 °F), cSt	3.39
Characterization Factor, K	12.13

HVY VAC. GAS OIL (800-1050 °F)	
Gravity, °API	23.5
Specific Gravity	0.91
Sulfur, wt %	0.31
Nitrogen, ppm	2060
Pour Point °F	115.6
Pour Point °C	46.4
Acid Number, mg KOH/g	0.02
Aniline Point, °F	212.5
Aniline Point, °C	100.3
Hydrogen, wt%	12.86
Viscosity @ 50 °C (122 °F), cSt	68.7
Viscosity @ 100 °C (212 °F), cSt	11.9
Characterization Factor, K	12.18

VACUUM RESIDUUM (1050 °F+)	
Yield, vol%	9.82
Gravity, °API	12.5
Specific Gravity	0.98
Sulfur, wt %	0.48
Nitrogen, ppm	4090
Hydrogen, wt%	12.23
MCR, wt%	12.2
Asphaltenes, C7, %	3.43
Nickel, ppm	14
Vanadium, ppm	9.74
Pour Point °F	95.8
Pour Point °C	35.5
Viscosity @ 50 °C (122 °F), cSt	12200
Viscosity @ 100 °C (212 °F), cSt	305
Viscosity @ 135 °C (275 °F), cSt	65.7
Cutter, vol% in Fuel Oil	24.1
Fuel Oil Yield, vol%	12.9
Characterization Factor, K	11.9