



## Marketing and Supply Company

### 40 Pale Oil

TEST	TEST METHOD	SPECIFICATIONS		TYPICAL VALUES
		MIN	MAX	
Viscosity, SUS at 100F	ASTM D2161			42
Viscosity, SUS at 210F	ASTM D2161			31.3
Viscosity, cSt at 40C	ASTM D445	4.00	5.00	4.65
Viscosity, cSt at 100C	ASTM D445			1.55
API Gravity, 60F	ASTM D4052			26.8
Specific Gravity, 60F	ASTM D4052	0.882	0.898	0.894
Density at 15C	ASTM D4052			0.894
Density at 20C	ASTM D4052			0.891
Aniline Point, F	ASTM D611	135	145	139
Flash Point, F	ASTM D93	240		244
Sulfur, PPM	ASTM D2622		100	6
Color Saybolt	ASTM D6045	16		24
Color	ASTM D6045		0.5	LO.5
Pour Point F	ASTM D7346		-75	
Refractive Index	ASTM D1747			1.485



## Marketing and Supply Company

### 60 Pale Oil

TEST	TEST METHOD	SPECIFICATIONS		TYPICAL VALUES
		MIN	MAX	
Viscosity, SUS at 100F	ASTM D2161			66
Viscosity, SUS at 210F	ASTM D2161			34.6
Viscosity, cSt at 40C	ASTM D445	9.50	11.50	11.03
Viscosity, cSt at 100C	ASTM D445			2.49
API Gravity, 60F	ASTM D4052			24.2
Specific Gravity, 60F	ASTM D4052	0.887	0.912	0.909
Density at 15C	ASTM D4052			0.91
Aniline Point, F	ASTM D611	145	150	147
Flash Point, F	ASTM D93	290		294
Sulfur, PPM	ASTM D2622		100	26
Color	ASTM D6045		0.5	1.0
Pour Point F	ASTM D7346		-50	-70
Refractive Index	ASTM D1747			1.4949



## Marketing and Supply Company

### Light Pale Oil

TEST	TEST METHOD	SPECIFICATIONS		TYPICAL VALUES
		MIN	MAX	
Viscosity, SUS at 100F	ASTM D2161			120
Viscosity, SUS at 210F	ASTM D2161			38.8
Viscosity, cSt at 40C	ASTM D445	20.00	24.00	22.8
Viscosity, cSt at 100C	ASTM D445			3.7
API Gravity, 60F	ASTM D4052			22.5
Specific Gravity, 60F	ASTM D4052	0.907	0.923	0.919
Density at 15C	ASTM D4052			0.92
Aniline Point, F	ASTM D611	155	165	160
Flash Point, F	ASTM D93	330		344
Sulfur, PPM	ASTM D2622		100	
Color	ASTM D6045		1.0	L1.0
Pour Point F	ASTM D7346		-30	
Refractive Index	ASTM D1747			1.4949



## Marketing and Supply Company

### Medium Pale Oil

TEST	TEST METHOD	SPECIFICATIONS		TYPICAL VALUES
		MIN	MAX	
Viscosity, SUS at 100F	ASTM D2161			1752
Viscosity, SUS at 210F	ASTM D2161			69.7
Viscosity, cSt at 40C	ASTM D445	220.00	400.00	313
Viscosity, cSt at 100C	ASTM D445			12.4
API Gravity, 60F	ASTM D4052			17.7
Specific Gravity, 60F	ASTM D4052	0.939	0.955	0.949
Density at 15C	ASTM D4052			0.95
Aniline Point, F	ASTM D611	155	170	163
Flash Point, F	ASTM D93	400		435
Sulfur, PPM	ASTM D2622		200	
Color	ASTM D6045		2.5	L0.5
Pour Point F	ASTM D7346		30	
Refractive Index	ASTM D1747			1.5166



## Marketing and Supply Company

### Heavy Pale Oil

TEST	TEST METHOD	SPECIFICATIONS		TYPICAL VALUES
		MIN	MAX	
Viscosity, SUS at 100F	ASTM D2161			24354
Viscosity, SUS at 210F	ASTM D2161			193.9
Viscosity, cSt at 40C	ASTM D445			3994
Viscosity, cSt at 100C	ASTM D445	38.00	42.00	39.2
API Gravity, 60F	ASTM D4052			14.9
Specific Gravity, 60F	ASTM D4052	0.927	0.973	0.967
Density at 15C	ASTM D4052			0.968
Aniline Point, F	ASTM D611	170	180	175
Flash Point, F	ASTM D93	445		452
Sulfur, PPM	ASTM D2622		500	
Color	ASTM D6045		3.0	L2.5
Pour Point F	ASTM D7346		85	
Refractive Index	ASTM D1747			1.5264