

INSPECTION INFORMATION	TEST METHOD	TYPICAL VALUE
Gravity, °API	ASTM D287	29.35
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8797
Viscosity @ 40°C cSt	ASTM D445	165.4
Viscosity @ 100°C cSt	ASTM D445	19.14
Viscosity Index	ASTM D2270	132
Pour Point °C (°F)	ASTM D5950	-33°C (-27°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	7048 (-15)
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	4.68
Noack Volatility, % loss	ASTM D 6375	5.1
Color	ASTM D 1500	2
Zinc, wt. %	ASTM D 5185	0.085
Phosphorus, wt. %	ASTM D 5185	0.077
Calcium, wt. %	ASTM D 5185	0.25
Sulfur, wt. %	ASTM D 4951	0.298
Boron, wt. %	ASTM D 5185	0.018
Sulfated Ash, wt. %	ASTM D 874	0.92
Nitrogen, wt. %	ASTM D 4629	0.102
Pumping Viscosity at (°C), cP	ASTM D4684	22,387 (-15)
Shear Stability	ASTM D 6278	15.18
TBN,mgKOH/g	ASTM D 2896	8.5

## Specification of RAHA Base Oil *SN 500*

Property	Unit	Test Method	Specification	Typical Result
Appearance	-	Visual	C & B	C & B
Color	-	ASTM D-1500	Max 2	1.8
Density at 15°C	kg/m <sup>3</sup>	ASTM D-4052	-	893
Kinematic viscosity at 40°C	mm <sup>2</sup> /s (cSt)	ASTM D-445	-	108
Kinematic viscosity at 100°C	mm <sup>2</sup> /s (cSt)	ASTM D-445	Min 10.8	10.9
Viscosity index	-	ASTM D-2270	Min 87	88
Flash point	°C	ASTM D-92	Min 235	245
Pour point	°C	ASTM D-97	Max -3	-4
Noack at 250°C	wt %	ASTM-D-5800	Max 5	3.5
Sulfur	wt %	ASTM D-4951	-	1.2