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**INSPECTION INFORMATION**

**TEST METHOD**

**TYPICAL VALUE**

Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8572
Viscosity @ 40°C cSt	ASTM D445	87.75
Viscosity @ 100°C cSt	ASTM D445	14.76
Viscosity Index	ASTM D2270	177
Pour Point °C (°F)	ASTM D5950	-45°C (-49°F)
Color	ASTM D 1500	2.5
Cold Cranking Simulator at (°C), cP	ASTM D5293	6535 (-30)
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	3.5
Noack Volatility, % loss	ASTM D 6375	13
Calcium, wt. %	ASTM D 5185	0.082
Zinc, wt. %	ASTM D 5185	0.127
Phosphorus, wt. %	ASTM D 5185	0.115
Sulfur, wt. %	ASTM D 4951	0.314
Sulfated Ash, wt. %	ASTM D 874	0.99
Nitrogen, wt. %	ASTM D 4629	0.124
Pumping Viscosity at (°C), cP	ASTM D4684	24,113 (-35)
Gravity, °API	ASTM D287	33.57
Magnesium, wt. %	ASTM D 5185	0.116
TBN, mgKOH/g	ASTM D 2896	10.0

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## CLAIMS INFORMATION

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API SN	Approved
API SM	Meets Requirements
API SL	Meets Requirements
API CJ-4	Approved
API CI-4 Plus, CI-4, CH-4, CG-4, CF-2, CF	Meets Requirements
Mack EO-O Premium Plus '07, EO-N Premium Plus '03, EO-M	Meets Requirements
CAT ECF-3, ECF-2, ECF-1-a	Meets Requirements
Cummins CES 20081, 20077, 20076	Meets Requirements
Detroit Diesel 93K218, 93K215, 93K214	Meets Requirements
MAN 3275, 270	Meets Requirements
MB 228.3, 228.31	Meets Requirements
MTU Type I, Type II	Meets Requirements
Renault RLD-3	Meets Requirements
Volvo VDS-4, 3, 2	Meets Requirements
Global DHD-1	Meets Requirements
JASO DH-2	Meets Requirements
ACEA E9, E7	Meets Requirements
Allison C-4	Meets Requirements

Detroit Diesel 93K218, 93K215, 93K214