

## PERFORMANCE OPTIMA LS FA- 4 5W-30

This innovative synthetic engine oil is your number one choice to service the most fuel-efficient engines by providing a 2% increase in fuel economy compared to previous CJ-4 formulations. It offers complete engine protection thanks to its wear reducing additives, enabling a unique balance between protection and fuel economy. Furthermore, its improved oxidation control and shear stability guarantee optimized fuel economy during the complete oil change interval.

### APPLICATIONS

The formulation of this heavy-duty engine oil enables full compatibility with turbochargers, superchargers and after-treatment systems. It offers complete servicing of the most modern and fuel-efficient engines requiring advanced FA-4 engine oils. It meets the requirements of original equipment manufacturers like the Mercedes-Benz 228.61, JASO DL-0-017 and JASO DH-2-017. It is compatible with emission control technology EURO VI for trucks.

### CUSTOMER BENEFITS

After treatment protection:	Full after treatment system protection.
Fuel economy:	Superior fuel economy and CO <sub>2</sub> reduction.
Total engine protection:	Outstanding engine cleanliness and durability.

### SPECIFICATION

API	FA-4	JASO	DH-1-17
CUMMINS	CES 20087	MACK	EOS-5
DETROIT DIESEL	DFS 93K223	MB	228.61
JASO	DH-2-17	RENAULT	RLD-5
JASO	DL-0-17	VOLVO	VDS-5

### TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.855
Kinematic viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	57.5
Kinematic viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	10.25
Viscosity index	ASTM D2270		168
B.N. (HClO <sub>4</sub> method)	ASTM D2896	mg KOH/g	13.4
Pour point	ASTM D6892	°C	-45
Sulfated Ash	ASTM D874	Mass %	0.8
Flash Point COC	ASTM D92	°C	216