



## EXTREME FLEET SHD DIESEL ENGINE OIL SPECIFICATION SHEET

EXTREME FLEET SHD DIESEL ENGINE OILS are formulated using the most advanced additive technology available to provide outstanding engine protection for 2007 EPA exhaust particulate emission standards for on highway diesel trucks, using Ultra Low Sulfur Diesel (ULSD) and Off-highway applications where diesel fuel sulfur levels are below 500 ppm.

Protects against soot, corrosion, rust, wear, crankcase sludge, upper ring land deposits, piston and bearing varnish formation, and oil thickening.

It is primarily intended for use in emissions compliant engines and older diesel engines for both turbocharged and naturally aspirated engines used in the heavy duty trucking, mining, construction, and farming industries.

**ALWAYS CONSULT AND FOLLOW MANUFACTURER'S GUIDE FOR PROPER SAE GRADE.**

**NEVER EXCEED RECOMMENDED DRAIN INTERVAL, WITHOUT CLOSE MONITORING THROUGH OIL ANALYSIS.**

### CUSTOMER BENEFITS

- \*Reduced operating costs.
- \*Enhanced emission control system life.
- \*Protects against particulate filter plugging.
- \*Excellent resistance against viscosity and thermal breakdown at high operating temperatures.
- \*Outstanding control of soot induced oil thickening.
- \*Outstanding piston cleanliness and performance
- \*Outstanding ring wear performance.
- \*Outstanding oxidation and oil consumption control.
- \*Excellent pumpability.
- \*Excellent shear stability.

### PERFORMANCE LEVEL

ACEA E5/B3/A3  
 ALLISON C-4  
 ALLIS CHAMLER  
 CUMMINS CES 20076, 20077, 20078, 20081  
 CATERPILLAR TO-2, ECF-1, ECF-2  
 DETROIT DIESEL 6V92TA, 6V53T  
 93K215, 93K217, 93K218  
 GLOBAL DHD-1  
 INTERNATIONAL HARVESTER  
 MACK EO-N PREMIUM PLUS (03)  
 MAN 271, M3275  
 JOHN DEERE 6466 A  
 MASSEY FERGUSON  
 MERCEDES BENZ DC 228.1, 228.2, 228.3  
 MIL CID A-A-52306  
 MTU TYPE 1  
 VOLVO VDS-2 (SAE 10W-30),  
 VDS-3 (SAE 15W-40), VDS-4

### TYPICAL CHARACTERISTICS

SAE Grade	<b>15W-40</b>			
Zinc (PPM)	1300			
Viscosity cST @ 100°C	14.2			
Viscosity cST @ 40°C	104.8			
Viscosity Index	139			
Pour Point °C	-30			
CCS cP @ (°C)	<5500(-20)			
API Gravity	29.6			
Sulfated Ash, %	1.0			
Density lbs/gal	7.309			
API Classification	CJ-4,CI-4 Plus, CH-4/SL			
SAE Grade	<b>10W</b>	<b>30</b>	<b>40</b>	<b>50</b>
Viscosity cST @ 100°C	6.28	11.5	14.2	19.58
Viscosity cST @ 40°C	35.2	93.9	131.6	209.8
Viscosity Index	129	111	107	106
Pour Point °C	-45	-36	-15	-12
CCS cP @ (°C)	<4000(-25)	N/A	N/A	N/A
API Gravity	31.4	28.9	28.2	27.4
Sulfated Ash, %	<1.0	<1.0	<1.0	<1.0
API Classification	CF	CF,CF-2/	CF,CF-2/	CF,CF-2/
		SL	SL	SL

**5081 Bings Way, House Springs, MO 63051  
MADE IN USA**