



# Heavy Duty Diesel Engine Oil

SAE 10W-30 API Service CJ-4, CI-4 Plus, CI-4, CH-4, CF/SM

## HDDEO SAE 10W-30

### Benefits:

- Offers protection against engine sludge, varnish formation, scuffing and wear, and high temperature oil thickening
- Delivers good low temperature flow properties of SAE 10W grade for cold engine start-ups
- Provides higher temperature protection properties of SAE 30 at normal operating temperatures

### Application:

API CJ-4/SM qualified oil approved by Detroit Diesel for conformance to DFS Oil Specification 93K218, conforms to Cummins Engineering Specification CES 20081, Volvo VDS-4, Mack EO-O Premium Plus and Renault VI RLD-3 approved.

### Recommended for use in:

- Mixed fleet applications that include naturally aspirated and turbo charged diesel engines
- Gasoline engines requiring API Service Category SM
- Caterpillar ECF-1-a, ECF-2 and ECF-3
- Ford WSS-M2C-171E
- API Service Categories CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, CF/SL, SJ

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<b>SAE Grade</b>	<b>Test Method</b>	<b>10W-30</b>
<b>API Service</b>		<b>CJ-4/SM</b>
Gravity, API	ASTM D-4052	31.3
Density, lbs/gal (g/L)	Calculated	7.23 (867)
Viscosity, cSt @ 40°C	ASTM D-445	83.0
Viscosity, cSt @ 100°C	ASTM D-445	12.20
Viscosity Index	ASTM D-2270	147
CCS, cP @ -25°C	ASTM D-5293	6,200
MRV @ -30°C	ASTM D-4684	35,000
Pour Point, °F (°C)	ASTM D-5949	-36 (-35)
Flash Point, °F (°C)	ASTM D-92	410 (210)
Color	ASTM D-1500	4.0
TBN	ASTM D-974	8.7
Sulfated Ash, wt. %	ASTM D-874	1.0
<b>Product Code</b>		<b>7198</b>

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