



# Heavy Duty Diesel Engine Oils

SAE 10W, SAE 30, SAE 40

## Heavy Duty Diesel Engine Oils

### Benefits:

- Fortified with advanced technology detergents, dispersants, anti-wear and anti-corrosion additives.
- Provides protection against engine sludge, varnish formation, high-temperature oil thickening, scuffing and wear.

### Applications:

- Fit for use in: API Service Categories CF, CF-2/SG (SAE 30 only), Ford M2C153-C, Caterpillar Series 3, Mack EO-K, MIL-L-2104C, Detroit Diesel Corporation Series 53, 71 & 92 two stroke cycle diesel engines (7193, 7194)
- SAE 10W (7191) meets API category CF
- SAE 40 meets API categories CF, CF-2

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<b>SAE Grade</b>	<b>Test Method</b>	<b>10W</b>	<b>30</b>	<b>40</b>
<b>API Service</b>		CF	CF, CF-2/SG	CF, CF-2
API Gravity, 60°F	ASTM D-4052	30.8	27.8	26.2
Density, lbs/gal (g/L)	Calculated	7.26 (870)	7.40 (887)	7.47 (895)
Viscosity, cSt @ 40°C	ASTM D-445	36.5	93.3	153.6
Viscosity, cSt @ 100°C	ASTM D-445	6.6	11.3	15.5
Viscosity Index	ASTM D-2270	124	107	103
CCS @ -25°C, cP	ASTM D-5293	3,800	N/A	N/A
MRV @ -30°C, cP	ASTM D-4684	12,225	N/A	N/A
Pour Point, °F (°C)	ASTM D-5949	-33 (-36)	-22 (-30)	-11 (-24)
Flash Point, °F (°C)	ASTM D-92	365 (184)	420 (216)	450 (232)
Color	ASTM D-1500	3.0	5.0	5.0
TBN	ASTM D-2896	9.0	7.2	7.2
Sulfated Ash, wt. %	ASTM D-874	1.20	0.95	0.95
<b>Product Code</b>		<b>7191</b>	<b>7193</b>	<b>7194</b>

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