



IDO PREMIUM

Features

Meets or exceeds the following industry standards:

- API CI-4+, CI-4, SL, and previous levels CH-4 and SJ
- Volvo VDS, VDS-2 (APPROVED)
- Mack EO-N PP03, EO-M Plus (APPROVED)
- Cummins 20078 (APPROVED)
- MB 228.3
- Caterpillar ECF-2
- Caterpillar TO-2 Performance
- Allison C-4
- Detroit Diesel 7SE270
- International Navistar TSI-06-12-25
- JASO DH-1
- Detroit Diesel Power Guard 93K214 (APPROVED)
- ACEA E3, E5
- Global DHD-1

Benefits

- Excellent cold weather starting
- Outstanding resistance to viscosity breakdown, even under high temperature, high shear conditions
- Maximum wear protection
- Maximum engine life
- Reduced oil consumption
- Excellent soot control

IDO PREMIUM is a blend of carefully selected premium quality base oils and exceptional performance additives. It is a multi-purpose crankcase oil, for all high-speed diesel and gasoline engines regardless of operating severity and type of service.

IDO PREMIUM was developed specifically to meet high demands of diesel engines equipped with EGR (Exhaust Gas Recirculation) or engines that use Caterpillar ACERT™ technology.

As these engines are tuned to reduce harmful emissions, they also produce more soot and run at ever-higher temperatures. **IDO PREMIUM** promotes long engine life through outstanding control of piston crown-land deposits. Excessive deposits cause cylinder liner bore polishing that leads to rapid increase in oil consumption. Excellent sludge control reduces piston ring fill and maintains above average engine cleanliness. Corrosive and extreme pressure wear is reduced to a minimum, extending bearing life. In addition, **IDO PREMIUM** has a greater ability than regular diesel engine oils to control the negative effects of excessive soot. It helps to reduce the tendency of today's high soot levels from plugging filters, thickening the oil and causing abrasive wear.

IDO PREMIUM has excellent "stay-in-grade" ability, maintaining its multi-grade performance over the entire life of the oil and showing very little loss of viscosity characteristics in service at both low and high temperatures.

IDO PREMIUM has always provided the very best in diesel engine oil performance and continues to lead the way after millions of miles of excellent service in engines of all makes, providing proof of this oil's superiority.



Typical Performance Results

SAE GRADE	15W40
VISCOSITY (D-445) cSt @ 40°C cSt @ 100°C	128 15.6
VISCOSITY INDEX (D-2270)	127
SPECIFIC GRAVITY	0.886
HT/HS VISCOSITY (D-4683) cP @ 150°C	4.4
POUR POINT (°C) (D-97)	-33
FLASH POINT (°C) (D-92)	220
COLD-CRANK SIMULATOR (D-2602) cP @ -20°C (max. 7000)	6395
LOW TEMPERATURE PUMPABILITY (D-3829) cP @ -25°C (max. 6000)	30133
TOTAL BASE NUMBER (D-2896)	11.3

Available Package Sizes

	946ml. (1 US qt)	3.78L (1 US Gal)	20L (5.28 US Gal)	205L (54.2 US Gal)	210L (55.5 US Gal)	500L (12 US Gal)	1000L (264 US Gal)	Bulk
IDO Premium 15W40	X	X	X	X	X	X	X	X

Check with sales representative or website for the latest product approvals.

