



PREMIUM PLUS 7000 SAE 15W-40 HEAVY DUTY ENGINE OIL

DESCRIPTION

49 NORTH® PREMIUM PLUS 7000 HEAVY DUTY ENGINE OIL is a top tier superior quality, heavy duty, drain extendable engine oil (compared to conventional engine oils) with few equals, designed to surpass the most stringent engine manufacturer requirements for high output diesel engines including EGR (exhaust gas recirculation) engines. It is also compatible with catalysts, soot traps and other pollution control devices required for 2007 diesel engines. Blended from highly refined mineral oils and specially engineered proprietary additives to provide extra protection in both low temperature operations and extended high speed, high temperature operations.

QUALITIES

49 NORTH® PREMIUM PLUS 7000 HEAVY DUTY ENGINE OIL exceeds Caterpillar requirements for operation using ultra-low sulfur fuel (15 ppm max.) as well as for low sulfur fuel (500 ppm max). This special formulation, with the ability to maintain power in low emission engines, includes advanced soot dispersant agents and high detergency levels designed to protect bearings and other engine surfaces from corrosive and erosive wear. 49 NORTH® PREMIUM PLUS 7000 HEAVY DUTY ENGINE OIL is formulated to manage and control the soot, sludge, and varnish, commonly encountered in engines operating on low sulfur diesel fuel with EGR.

APPLICATIONS

49 NORTH® PREMIUM PLUS 7000 HEAVY DUTY ENGINE OIL is recommended for all naturally aspirated, turbocharged and/or EGR (exhaust gas recirculation) diesel engines and most gasoline engines that operate on and off highway. The product is also suitable for many transmissions, air compressors and other applications requiring high quality engine oil. 49 NORTH® PREMIUM PLUS 7000 HEAVY DUTY ENGINE OIL meets and/or exceeds all major OEM requirements and/or specifications including Caterpillar, Cummins, Detroit Diesel, John Deere, Mack, Mining & Marine (MAN), Mercedes Benz, VW and Volvo.

Meets and/or Exceeds Requirements For:

ACEA E5/E7
Allison C-4
API CJ-4/SM
Caterpillar ECF-3
CIDA-A-52306-A & 52306
Cummins CES 20081
Daimler Chrysler MS 6395-F
Detroit Diesel/MTU Types 1 & 2
Detroit Diesel 93K218, 93K215
Global Specification DHD-1
Ford ESE M2C153-E & ESR M2C171-C
GM 6094-M
Mack EO-O Premium Plus 07
MAN 271, 3275
Mercedes Benz 228.3
MIL-PRF-2104G
Navistar TIS-85-6
Volvo VDS, VDS-2, VDS-3
VW 501,505

TYPICAL PROPERTIES

SAE Viscosity Grade	15W-40
Product Code	25671
API Gravity (ASTM D-1298)	29.2
Specific Gravity, g/cc	0.880
Viscosity (ASTM D-445):	
cSt @ 40° C	118
cSt @ 100° C	15.2
SUS @ 100° F	579
SUS @ 210° F	78
Viscosity Index (ASTM D-2270)	133
Brookfield Viscosity (D-5293)	
cPs @ -20° C (7000 max)	<7000
Pour Point (ASTM D-97), °F (°C)	-25 (-32)
Flash Point (ASTM D-92), °F (°C)	420 (216)
Colour (ASTM D-1500)	5.5
Sulfated Ash, m% (ASTM D-874)	1.0
Total Base Number (TBN)	10.1

Lubricants For All Reasons

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