



PREMIUM PLUS 5000 SAE 15W-40 HEAVY DUTY ENGINE OIL

DESCRIPTION

49 North® Premium Plus 5000 Heavy Duty Engine Oil is an API CI-4 Plus engine oil designed to meet and/or exceed the most current API service category for modern four cycle, high output diesel engines, including EGR (exhaust gas re-circulation) engines. Drain extendable, it is blended from highly refined paraffinic mineral oils and specially selected additives to provide extra protection in low temperature and extended high speed, high temperature operations. This product has the ability to maintain power in low emission engines and includes advanced soot dispersant agents and high detergency levels designed to protect bearings and other engine surfaces from corrosive and erosive wear.

QUALITIES

49 North® Premium Plus 5000 Heavy Duty Engine Oil has a TBN (Total Base Number) of 10.5 which minimizes engine deposits, most notably in critical piston ring groove locations, thus reducing oil consumption and wear during cold weather start-ups when engines are most vulnerable to damage. This product has the ability to maintain power in low emission engines. It 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 5000 Heavy Duty Engine Oil is drain extendable and is formulated to manage and control the soot, sludge, and varnish, commonly encountered in engines operating on low sulfur diesel fuel with EGR (exhaust gas re-circulation).

APPLICATIONS

49 North® Premium Plus 5000 Heavy Duty Engine Oil is recommended for all naturally aspirated, turbocharged and/or EGR 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.

Meets and/or Exceeds Requirements For:

ACEA E2/E3/E5/B3/A2
Allison C-4
API CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, CF/SL, CD, CE
Caterpillar ECF-1, TO-2, Series III, 3100-3500 & D Series
CIDA-A-52306-A & 52306
Cummins CES 20078 & 20076
Daimler Chrysler MS 6395-F
Detroit Diesel/MTU Types 1 & 2
Detroit Diesel 6V-92TA, 93K214
Global Specification DHD-1
Ford ESE M2C153-E & ESR M2C171-C
GM 6094-M
Mack EO-M, EO-M Plus, EO-N Premium Plus,
EO-N Premium Plus 03
MAN 271, 3272
Mercedes Benz 228.3
MIL-PRF-2104H; Navistar TIS-85-6
Volvo VDS, VDS-2, VDS-3
VW 501,505

TYPICAL PROPERTIES

SAE Viscosity Grade	15W-40
Product Code	21854
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)	L5.0
Sulfated Ash, m% (ASTM D-874)	1.20
Total Base Number (TBN)	10.5

Lubricants For All Reasons

6611 - 45 Street
Leduc, Alberta, Canada
T9E 7E3

Email: info@49northlubricants.com
www.49northlubricants.com

Toll Free: 1.800.463.0354
Telephone: 780.986.9260
Facsimile: 780.986.9650