

ADVANCED SYNTHETIC BLEND HEAVY DUTY CK-4 ENGINE OIL

PRODUCT CODE: 12378, 12379

DESCRIPTION

49 NORTH® ADVANCED SYNTHETIC BLEND HEAVY DUTY CK-4 ENGINE OIL contains a new formulation designed to meet the newest API and OEM service categories and specifications for newer diesel engines. 49 NORTH® ADVANCED SYNTHETIC BLEND HEAVY DUTY CK-4 ENGINE OIL is designed to protect all newer low emission diesel engines and their exhaust after treatment systems and all other heavy-duty diesel engine requirements for years to come and is designed for longer engine life under the most extreme conditions.

QUALITIES

49 NORTH® ADVANCED SYNTHETIC BLEND HEAVY DUTY CK-4 ENGINE OIL is formulated with a heavy duty additive package that reduces oxidation and deposit formation, limits wear and corrosion, and suspends contaminants to increase engine life. 49 NORTH® ADVANCED SYNTHETIC BLEND HEAVY DUTY CK-4 ENGINE OIL has excellent low temperature performance, exceptional soot control, protects against volatility burn off, and has exceptional high temperature, high shear characteristics, as well as providing DPF protection from ash buildup with a balanced formulation.

APPLICATIONS

49 NORTH® ADVANCED SYNTHETIC BLEND HEAVY DUTY CK-4 ENGINE OIL has an outstanding TBN retention formulation which gives excellent engine protection in severe service conditions for both new and old diesel engines. Typical applications include:

- Four stroke naturally aspirated and turbocharged diesel engines.
- All new (2007+) low emission engines with diesel particulate filters (DPF).
- Extended drain operations in on highway fleets and individual units.
- Over the road fleets and individual units.
- Pre-2007 engines specifying older API or OEM oil performance categories.
- Using ultra low sulfur diesel fuel.
- Off highway agricultural and construction equipment.

FEATURES & BENEFITS

Specifically designed to protect catalyst (DPF) and other emission components for reduced downtime.

The synthetic blend and heavy duty chemistry reduce oxidation and shearing effects to provide longer oil life.

Lower viscosity lose due to shearing provides consistent oil viscosity.

Suspends and holds more soot, as well as reducing the deposit formation, which leads to reduced engine wear and extended engine life.

CONTACT

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Less oil volatility leads to reduced oil consumption and fewer high temperature deposit, allowing for longer engine life with reduced maintenance and less oil top offs.

Exceeds the pumpability requirements of most engine oils providing lubrication quicker helping to reduce wear during cold starts.

Designed to provide extended drain service.

TYPICAL PROPERTIES

SAE Viscosity Grade	15W-40	10W-30
Product Code	12378	12379
API Service	CK-4	CK4
Viscosity, Kinematic		
cSt @ 40°C	113	82
cSt @ 100°C	15.5	12.2
Viscosity Index	140	145
Pour Point, °C (°F)	-36 (-33)	-41 (-43)
MRV-TP1,	20,000 @ -25°C	21,000 @ -30°C
CCS, cP	6,000 @ -20°C	6100 @ -25°C
TBN, ASTM D2896	10	10
Sulfated Ash, wt%	0.99	0.99

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

MEETS OR EXCEEDS API AND OEM SERVICE CATEGORIES

	15W-40	10W-30
API CK-4, CJ-4, CI-4 Plus, CI-4	X	X
Cummins 20086, 20081, 20078, 20071	X	X
Cummins 20077, 20076, 20072	X	
Caterpillar ECF-3, ECF-2	X	X
Detroit Diesel 93K222, 93K218, 7SE270	X	X
Mack EOS-4.5, EO-O Premium Plus, EO-N Premium Plus, EO-N Plus	X	X
Volvo VDS-4.5, VDS-4/3	X	X
Daimler Mercedes Benz 228.3	X	
Renault RLD-4, RLD-3	X	RLD-4
MAN M-3575	X	
Global DHD-1	X	
ACEA E9-2012, E7-08, E9-08	X	X
JASO DH-2	X	X
MIL-L-2104 E/F	X	X
Allison C-4, C-3	X	C-4

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HEALTH & SAFETY

A complete Safety Data Sheet (SDS) is available upon request.

PACKAGE SIZES

Available in Bulk, 1211L totes, 208L Drums, 20L Pails

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