

ADVANCED SYNTHETIC HEAVY DUTY CK-4 ENGINE OIL

PRODUCT CODE: 21771, 21781

DESCRIPTION

49 NORTH® ADVANCED SYNTHETIC HEAVY DUTY CK-4 ENGINE is engineered for 2007 model year and newer diesel engines with advanced emission control systems. These systems use exhaust gas recirculation, diesel particulate filters and catalysts that are sensitive to the wrong oil. The high Total Base Number (TBN) and outstanding TBN retention will give excellent oxidation protection in severe service conditions for both new and oil engines.

QUALITIES

49 NORTH® ADVANCED SYNTHETIC HEAVY DUTY CK-4 ENGINE is formulated with high quality, high viscosity index synthetic base stocks, a proven additive system with the proper balance of metallic detergents and dispersants, multipurpose inhibitors and a shear stable viscosity index improver. 49 NORTH® ADVANCED SYNTHETIC HEAVY DUTY CK-4 ENGINE has been proven to protect diesel particulate filter (DPF) emission systems against ash and particle build up. In addition it provides improved engine protection from soot, deposits, varnish, wear, acids, viscosity shear loss, and oil consumption.

APPLICATIONS

49 NORTH® ADVANCED SYNTHETIC HEAVY DUTY CK-4 ENGINE is suitable for use in service categories that allow for the use of a multi-grade Diesel oil and is designed to meet or exceed the service categories for the following OEM's: Cummins, Caterpillar, Detroit Diesel, Mack, Volvo, Mercedes Benz, and Global DHD.

- 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.
- Pre-2007 engines specifying older API or OEM oil performance categories.
- Using ultra low sulfur diesel fuel.
- Off highway agricultural and construction equipment.

Check the owner's manual for viscosity requirements.

FEATURES & BENEFITS

Full Synthetic formulation provides wider temperature range performance, enhanced fuel economy, and provides excellent cold flow properties ensuring faster lubrication during cold starts, maximizing engine life.

Technology specifically designed to protect catalyst, particulate filters, and other emission components.

Superior deposit control minimizes oil consumption.

Prevents wear by providing stable viscosity at high temperature, high load conditions.

Improved oxidation and rust protection throughout the oil drain interval.

CONTACT

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TYPICAL PROPERTIES

SAE Viscosity Grade	5W-40	0W-40
Product Code	21771	21781
API Service	CK-4, CJ-4, etc	CK-4, CJ-4, etc
Viscosity, Kinematic		
cSt @ 40°C	97.1	87.3
cSt @ 100°C	15.5	15.1
Viscosity Index	169	184
Pour Point, °C (°F)	-45 (-49)	-54 (-65)
MRV-TP1, @ °C	26,000 @ -35	20,000 @ -40
CCS, cP @ °C	5,700 @ -30	5,400 @ -35
TBN, ASTM D2896	10	10
Sulfated Ash, wt%	< 1.0	< 1.0

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

HEALTH & SAFETY

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

PACKAGE SIZES

Available in Bulk, 1211L totes, 208L Drums, 20L Pails, 6x 3.78L cases

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