



**YOU GET OUT
WHAT YOU
PUT IN.** 

SHP® Arctic Diesel Engine Oil

Kendall® SHP Arctic Diesel Engine Oil is a premium quality, full-synthetic engine oil developed for use in four-stroke cycle diesel engines operating under arctic temperature conditions. It meets API CK-4 performance requirements for use in modern low-emission engines designed to meet 2007 and later EPA on-highway exhaust emissions standards, and is backward serviceable for use in older diesel engines. It is specially formulated for compatibility with exhaust aftertreatment systems using diesel particulate filters (DPF), diesel oxidation catalysts (DOC) and/or selective catalytic reduction (SCR). The full-synthetic formulation and SAE 0W-40 viscosity grade provide excellent low-temperature properties for better performance in harsh arctic climates.

SHP Arctic Diesel Engine Oil is formulated with synthetic base stocks and an advanced low-SAPS additive package to provide outstanding wear protection, soot control and bearing corrosion protection in both conventional and EGR-equipped diesel engines. It has excellent soot dispersancy to protect against abrasive wear and soot-induced oil thickening, and to ensure good low-temperature pumpability even with highly soot-laden oil. The full-synthetic formulation provides enhanced oxidation resistance and thermal stability at high temperatures and improved low-temperature properties compared with a conventional, non-synthetic formulation.

SHP Arctic Diesel Engine Oil is recommended for use in diesel engines where an API CK-4 quality engine oil is specified, and is backward serviceable for use where earlier API "C" category engine oils are specified.

Applications

- On- and off-highway diesel equipment operating at very low ambient temperatures
- On-highway diesel trucks equipped with EGR and exhaust aftertreatment systems to meet 2007/2010 emissions standards
- Older diesel equipment with conventional, non-EGR engines or ACERT engines
- Off-highway construction, earth moving and mining equipment

SHP Arctic Diesel Engine Oil meets or exceeds the requirements of:

- Diesel engines manufactured by Caterpillar, Cummins, Detroit Diesel, Mack, Mercedes-Benz, Volvo and other OEMs where the OEM specifies an SAE 0W-40, API CK-4 engine oil

Premium Full-Synthetic Diesel Engine Oil for Arctic Climates; Fortified with Liquid Titanium® Protection Additive



Features/Benefits

- Excellent protection for newer low-emission diesel engines and older diesel engines
- Specially formulated to protect exhaust aftertreatment systems
- Outstanding soot control for protection against abrasive wear and soot-induced oil thickening
- Outstanding resistance to viscosity and thermal breakdown at high temperatures
- Exclusive Liquid Titanium additive provides enhanced oxidation and wear control
- Protects against rust, bearing corrosion and wear
- Excellent low-temperature pumpability for easier starting and less wear during cold starts
- High shear stability
- High resistance to foaming and aeration

SHP® Arctic Diesel Engine Oil

Typical Properties	
SAE Grade	0W-40
Specific Gravity @ 60°F	0.846
Density, lbs/gal @ 60°F	7.04
Color, ASTM D1500	4.5
Flash Point (COC), °C (°F)	226 (439)
Pour Point, °C (°F)	-58 (-72)
Viscosity, Kinematic	
cSt @ 40°C	85
cSt @ 100°C	14.4
Viscosity Index	178
Cold Cranking Viscosity, cP @ -35°C	5853
High-Temp/High-Shear Viscosity, cP @ 150°C	4.0
Sulfated Ash, ASTM D874, wt %	1.0
Total Base Number (TBN), ASTM D2896	10.2
Zinc, wt %	0.1215
Titanium, wt %	0.010

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/SDS>

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Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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