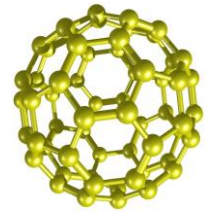




XD ENGINE OIL

Monograde



Fortified With
Bardahl Fullerenes
Technology

BARDAHL HIGH PERFORMANCE MINERAL-BASED DIESEL ENGINE OILS

– SAE 40 (API CF/SF)

PRODUCT DESCRIPTION

Bardahl XD Heavy Duty Engine Oil SAE40 CF/SF is fortified with high temperature detergent additives and Bardahl Fullerenes Technology, making it ideal for heavy duty on-highway and off-highway diesel engines. Bardahl XD Heavy Duty Engine Oil SAE40 CF/SF is specially formulated to resist oil thickening caused by soot formation due to incomplete fuel combustion. Its dispersant chemistry acts to minimize sludge formation. It is ideal for use in over-the-road diesel trucks, heavy duty construction equipment, oil fields engines, farm vehicles and diesel cars where SAE 40 oil of API CF performance is specified.

Bardahl Fullerenes Technology

Normal engine oils, anti-wear and anti-friction additives form a single layer of protection that can be broken under high load and high stress applications. Bardahl Fullerenes Technology offers added layer of protection to shield engine components against friction and wear. It uses Bardahl Fullerene molecules to create an extra protective layer of hard particles on engine surfaces and prevent direct surface-to-surface contact. Being spherical in shape, Bardahl Fullerene molecules act as nano ball bearings, allowing surfaces to glide over one another with minimal friction and wear.

Advantages

- Superior resistance against wear.
- Highly resistant to oxidation and oil thickening.
- Robust reserved alkalinity (TBN) for outstanding sludge control and acid neutralisation.
- Keeps engine cleaner and more efficient.
- Cost effective product.

Performance Standards

API CF/SF

Applications

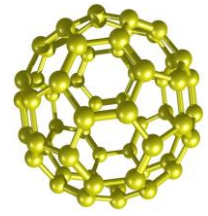
- Highly recommended for indirect injection diesel engines and those running on diesel with high sulphur content of more than 0.5% wt.
- Recommended for heavy duty diesel engines particularly for off-highway vehicles and heavy construction equipment.
- Can be used in gasoline engines that specify an SAE 40 grade of API SF performance.
- Can be used in transmissions where similar engine oil types are specified.

Issue Date: 01 Jan 2015

Bardahl reserves the right to modify or change this product with the purpose of improving its performance characteristics



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Typical Properties

SAE GRADE	40
Density, kg/litre@15°C	0.886
Colour ASTM	2.5
Kinematic Viscosity, mm ² /s@40°C	156.0
Kinematic Viscosity, mm ² /s@100°C	15.0
Viscosity Index	96
Sulfated ash, % wt	0.85
Pour Point, °C	-12
Flash Point COC, °C	232
TBN, mg KOH/g	10.0