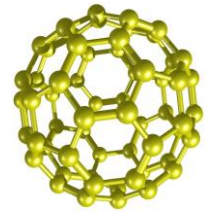




SUPER XP ENGINE OIL



Fortified With
Bardahl Fullerenes
Technology

BARDAHL HIGH PERFORMANCE MINERAL-BASED ENGINE OILS – SAE 20W-50 (API SG/CD)

PRODUCT DESCRIPTION

Bardahl Super XP Mineral Engine Oil SAE 20W50 SG/CD is formulated using highly refined base stocks for added thermal and oxidation stability. Together with a proven anti-wear additive package, Super XP engine oil demonstrates outstanding performance in all operating conditions.

It resists oil-thickening caused by high temperature, and contains detergents and dispersants to keep the engine clean. This oil protects against deposits in the piston ring belt area, and in the vital oil passageways where deposit formation can reduce oil flow, resulting in engine failure.

It is fortified with highly stable viscosity index improver to ensure consistent viscosity and high-temperature, high-shear protection. Formulated additionally with Bardahl Fullerenes Technology, it provides added protection against cold starts and always maintains a strong oil film to protect metal surfaces during high load or high temperature conditions, which can destroy the oil film of an inferior lubricant.

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

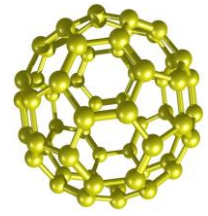
- Superior protection against harmful deposits and acids.
- High temperature stable.
- Cost effective and versatile lubricants.
- Keeps engine operationally efficient.
- Improved engine cleanliness.
- Outstanding protection against rust and corrosion.
- Improved control of oil consumption.
- Superior foaming control.

Performance Standards

API SG/CD



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Applications

- Recommended for most modern engines and also those of older technologies.
- Suitable for passenger cars, light-duty diesel engines and those machines that call for an API SG/CD lubricant.

Typical Properties

SAE GRADE	20W-50
Density, kg/litre@15°C	0.890
Colour ASTM	2.5
Kinematic Viscosity, mm ² /s@40°C	170.5
Kinematic Viscosity, mm ² /s@100°C	18.9
Viscosity Index	125
CCS@-15°C, cP	7600
Sulfated ash, %wt	0.63
Pour Point, °C	-15
Flash Point COC, °C	230
TBN, mg KOH/g	5.1