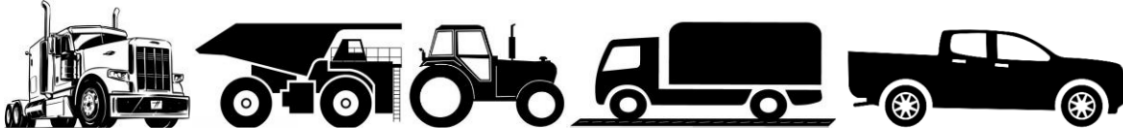




PATROL OIL HDDEO

SAE 15W-40 API CI-4/SL



PRODUCT DESCRIPTION

Patrol Oil SAE 15W-40 API CI-4/SL is a high-performance multigrade heavy-duty engine oil designed for turbocharged and naturally aspirated diesel engines as well as gasoline engines. It delivers excellent soot control, wear protection, oxidation stability, and engine cleanliness under severe operating conditions.

APPLICATIONS

- Heavy-duty diesel engines operating under severe service
- Turbocharged and naturally aspirated diesel engines
- Mixed fleet applications including gasoline engines
- On-highway and off-highway equipment
- Engines requiring API CI-4 or API SL performance

FEATURES & BENEFITS

- Excellent soot handling and deposit control
- Strong wear and corrosion protection
- High thermal and oxidation stability
- Good piston cleanliness
- Suitable for mixed diesel and gasoline fleets

PERFORMANCE STANDARDS / OEM REFERENCES

- API CI-4 / SL
- ACEA E7, A3/B4
- Mercedes-Benz MB 228.3
- MAN M 3275
- Volvo VDS-3
- Mack EO-N / EO-M Plus
- Renault RLD-2
- Cummins CES 20076 / 20077 / 20078
- Caterpillar ECF-1-a
- Detroit Diesel DDC 93K215



TYPICAL PROPERTIES

PROPERTY	METHOD	UNIT	TYPICAL VALUE
SAE Grade	SAE J300	-	15W-40
Kinematic Viscosity @ 40°C	ASTM D445	cSt	100–115
Kinematic Viscosity @ 100°C	ASTM D445	cSt	14.5–15.5
Viscosity Index	ASTM D2270	-	135–145
Cold Cranking Simulator @ -20°C	ASTM D5293	cP	≤ 7000
Pour Point	ASTM D97	°C	-30
Flash Point (COC)	ASTM D92	°C	220–230
Total Base Number	ASTM D2896	mg KOH/g	10–12
Density @ 15°C	ASTM D4052	kg/m ³	875–885

Note: These characteristics are typical of current production. While future production will conform to PATROL's specification, variations in these characteristics may occur.

Health and Safety: Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request. This product should not be used for purposes other than its intended use. If disposing off used product, take care to protect the environment

