

Product Data Sheet

HIPRO HMX SAE 15W-40 API CJ-4/SN

Premium Mineral Heavy Duty Diesel Engine Oil

PRODUCT FEATURES

HIPRO HMX SAE 15W-40 use the latest “Mid SAPS” additive technology to protect under the most severe conditions found in the modern low emission engines. The protective power of the oil is enhanced through the use of high purity “Group II+” base oils that provide increased additive activity. It delivers outstanding performance in modern, high-output, low emission engines including those with Exhaust Gas Recirculation (EGR) and Aftertreatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs) for improvements in wear protection, deposit control and resistance to breakdown under high temperature.

APPLICATIONS

- The latest low-emissions, high performance diesel applications equipped with aftertreatment systems using Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC) technologies.
- High-performance diesel applications including turbo-charged designs featuring EGR Technology and diesel applications using older, naturally aspirated conventional designs.
- On-highway heavy-duty trucking and off-highway including: construction, mining, quarrying, and agriculture.
- On-highway applications operating in both high speed/high load and short haul pick-up/delivery.
- Off-highway applications operating in severe low speed/heavy load conditions.
- High performance gasoline engines and mixed fleet operations.
- Diesel-powered equipment from American and European OEMs.

SPECIAL PROPERTIES

- Superior soot-viscosity control – Greater engine efficiency, long engine life and long oil life.
- Outstanding thermal and oxidation stability – Reduced low temperature sludge build up and high temperature deposits.
- Excellent oil consumption control – Lower oil costs due to less make-up oil during operation.
- Excellent TBN reserves – Improved corrosion protection and extended drain intervals.
- Stat-in-grade shear stability – Maintains viscosity in severe, high temperature service for greater wear protection and long engine life.
- Excellent low temperature pumpability – Faster oil flow and reduced wear during engine start up.
- Superb resistance to corrosive and abrasive wear – Long life of critical wear surfaces.
- Components compatibility – Long gasket, seal and after treatment (DPF and DOC) life.

CAUTION: Continuous contact with used oil has caused skin cancer in lab animals. Avoid prolonged skin contact. Avoid eye contact. Wash skin thoroughly with soap and water after handling. Flush eyes with water for 15 minutes in case of contact. If swallowed, do not induce vomiting. Contact a physician immediately. **KEEP OUT OF REACH OF CHILDREN.**

PERFORMANCE LEVELS

- API CJ-4/SN
- ACEA E7/E9-08
- MB Approval p228.31
- MAN M3275
- VOLVO VDS-4/VDS-3
- Renault RLD-3
- Cummins CES 20076/77 and 20081
- Mack EO-O PP07
- Mack EO-N PP03
- Detroit Diesel 93K218
- Caterpillar ECF-2, ECF-3
- MTU Type 2.1
- JASO DH-2 Demo
- Global DHD-1 Demo

TYPICAL SPECIFICATION

			SAE 15W-40
PROPERTY	UNIT	TEST METHOD	SPECIFICATION
Density@15 deg C	kg/l	ASTM D4052	0.8765
Viscosity at 40 deg C	cSt	ASTM D445	121.70
Viscosity at 100 deg C	cSt	ASTM D445	15.64
Viscosity Index		ASTM D 2270	135
Flash Point COC	deg C	ASTM D 92	Min 220
Pour Point	deg C	ASTM D 97	-20
Total Base Number	mgKOH/g	ASTM D 2896	9.50

* The above specifications are typical of current production, variation in these characteristics may occur, but will not affect the product performance.

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