

## Product Data Sheet

### **HIPRO X5000 SAE 15W-40 API CK-4**

Fully Synthetic Heavy Duty Diesel Engine Oil

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#### PRODUCT DESCRIPTION

**HIPRO X5000** is the latest API grade CK-4 diesel engine oil that formulated with selected synthetic base stocks to protect in modern and low emission engines. Specifically engineered to deliver longer oil life, enabling longer service intervals even under severe operating conditions.

#### APPLICATIONS

- Suitable for use in all on or off highway engines requiring an API CK-4, CJ-4, CI-4 Plus, CI-4 or CH-4 diesel oil in this viscosity grade.
- The latest low-emissions, high performance diesel applications equipped with after treatment 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.
- High performance gasoline engines and mixed fleet operations.
- Diesel-powered equipment from American and European OEMs.

#### SPECIAL PROPERTIES.

- Extended oil drain intervals up to 45,000 miles\*. (*\*in combination with and following a proper oil analysis program.*)
- Outstanding oxidation protection – Improves oxidation performance by over 60% compared to CJ-4 technology.
- 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.
- Deposit protection – Excellent piston cleanliness and engine deposits performance.
- Superb resistance to corrosive and abrasive wear – Long life of critical wear surfaces.

#### PERFORMANCE LEVELS

CK-4, CJ-4, CI-4 Plus, CI-4, CH-4; ACEA E9-12, E7; Caterpillar ECF-2, ECF-3; Cummins CES 20086, 81; Detroit Fluids Specification (DFS) 93K222, 93K218; MACK EO-S 4.5, EO-O Premium Plus, EO-N; MAN M3575; MB-Approval 228.31; MTU Category 2.1; Volvo VDS-4.5, VDS-4, Renault RLD-4, RLD-3; Ford WSS M2C171-F1

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**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.**

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**TYPICAL SPECIFICATION**

|                        |             |                    | <b>SAE 15W-40</b>    |
|------------------------|-------------|--------------------|----------------------|
| <b>PROPERTY</b>        | <b>UNIT</b> | <b>TEST METHOD</b> | <b>SPECIFICATION</b> |
| Density@15 deg C       | kg/l        | ASTM D4052         | 0.8768               |
| Viscosity at 40 deg C  | cSt         | ASTM D445          | 118.20               |
| Viscosity at 100 deg C | cSt         | ASTM D445          | 15.68                |
| Viscosity Index        |             | ASTM D 2270        | 140                  |
| Flash Point COC        | deg C       | ASTM D 92          | Min 220              |
| Pour Point             | deg C       | ASTM D 97          | -38                  |
| Total Base Number      | mgKOH/g     | ASTM D 2896        | 9.50                 |
| CCS @ -20 C,           | cP          | ASTM D5293         | 6575                 |

\* 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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