



Diesel Engine Oils

hyrax[®] ULTIMO



Excellent wear protection to
prolong engine life



Excellent thermal and
oxidation stability



Minimize deposit formation
at critical engine parts



Alkaline

High alkalinity reserve for
extended drain service

Description

Hyrax Ultimo is an extreme performance synthetic blend multigrade diesel engine oils engineered specifically to exceed the most stringent and severe lubrication requirement of the latest European low-emission, heavy duty diesel engines including those fitted with Exhaust Gas Recirculation (EGR) system operating under the most extreme service conditions and long drain oil intervals.

Hyrax Ultimo is carefully designed to provide excellent engine cleanliness, excellent low temperature fluidity, excellent thermal and oxidation stability and exceptional wear protection to all engine parts. Its high alkalinity reserve and special dispersant keeping acidic formation and sludge deposit in crankcases under control even for long drain interval engine operation.

Applications

Hyrax Ultimo is highly recommended for severe duty high-performance diesel engines including those fitted with EGR system, both on-highway and off-highway, operating under most extreme and extended drain condition as specified by OEMs such as Mercedes Benz Actros engine.

Benefits

- Excellent anti-wear and anti-scuff properties to prolong engine life
- Excellent thermal and oxidation stability to minimize oil thickening, high temperature deposits, sludge build-up and oil degradation
- Exceptional detergent and dispersant properties minimize deposit formation at critical engine parts and prevent soot-induced engine wear
- Contains high alkalinity reserve for extended drain service
- Excellent shear stability properties to ensure consistent oil viscosity for optimum engine operation

Typical Characteristics

Properties	Method	SAE 10W-40
Density at 15°C, Kg/L	ASTM D4052	0.867
Flash Point, °C	ASTM D92	>210
Pour Point, °C	ASTM D97	-30
Viscosity at 40°C, cSt	ASTM D445	98.3
Viscosity at 100°C, cSt	ASTM D445	14.5
Viscosity Index	ASTM D2270	152
Total Base Number, mgKOH/g	ASTM D2896	12

Performance

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|----------------|---------------|---------------------------|-------------------------|
| ● API CI-4 | ● MAN 3277 | ● Global DHD-1 | ● Detroit Diesel 93K215 |
| ● ACEA E4 / E7 | ● Volvo VDS-3 | ● Mercedes-Benz MB p228.5 | ● Renault RXD / RLD-2 |
| ● Deutz IV-10 | ● MTU Type 3 | ● Cummins CES 20078 | ● MACK E0-M+ |