



Diesel Engine Oils

hyrax[®] ULTIMO PREMIUM PLUS LS



Note:

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Ultimate 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 Premium Plus LS is the ultimate performance fully synthetic low SAPS multigrade diesel engine oils specifically designed to surpass the most stringent and most severe lubrication requirement of the latest European low-emission, heavy duty diesel engines operating under the most extreme service conditions and long drain oil intervals.

Hyrax Ultimo Premium Plus LS is specially engineered 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 keep acidic formation and sludge deposit in crankcases under control even for long drain interval engine operation.

Applications

Hyrax Ultimo Premium Plus LS is highly recommended for severe duty high-performance diesel engines including those fitted with Selective Catalyst Regeneration (SCR), Diesel Oxidation Catalyst (DOC) and Exhaust Gas Recirculation (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 extend 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
- Advanced low SAPS additive technology provide outstanding protection to exhaust after treatment devices such as DPF and DOC.
- The SAE 5W-30 grade offers fuel economy benefits especially for long haul operation

Typical Characteristics

Properties	Method	SAE 5W-30	SAE 10W-40
Density at 15°C, Kg/L	ASTM D4052	0.859	0.864
Flash Point, °C	ASTM D92	>210	>210
Pour Point, °C	ASTM D97	-39	-36
Viscosity at 40°C, cSt	ASTM D445	70.9	98.7
Viscosity at 100°C, cSt	ASTM D445	12.0	14.6
Viscosity Index	ASTM D2270	168	154
Total Base Number, mgKOH/g	ASTM D2896	10	10.1

Performance

SAE 5W-30		SAE 10W-40	
● API CK-4 / CJ-4 / SN	● Renault Truck RLD-4	● API CK-4 / CJ-4	● Renault Truck RLD-3
● ACEA E6 / E7 / E9	● Mack EO-S-4.5	● ACEA E6 / E7 / E9	● Mack EO-O-PP-07
● Mercedes-Benz MB p228.51	● Cummins CES 20086	● MTU Type 3.1	● Mercedes-Benz MB p228.51
● Volvo VDS-4.5	● Deutz DQC IV-10 LA	● MAN 3477	● Cummins CES 20081
● Cat ECF-3	● Detroit Diesel DFS 93K222	● Volvo VDS-4	● Detroit Diesel DDC 93K218