



Diesel Engine Oils

hyrax[®] ENDURO SP PLUS



Optimise and boost engine power with maximum protection.



Excellent thermal and oxidation stability



Minimize deposit formation at critical engine parts



Consistent oil viscosity for optimum engine operation

Description

Hyrax Enduro SP Plus is an extreme performance fully-synthetic multigrade diesel engine oils formulated exclusively to exceed the most stringent and severe lubrication requirement of the latest European high-output, low-emission, heavy duty diesel engines including those fitted with Exhaust Gas Recirculation (EGR) system as well as the older turbocharged engines burning low sulphur or conventional high sulphur diesel fuel and operating under the most extreme service conditions and extended oil drain intervals.

Hyrax Enduro SP Plus is specially engineered to provide excellent engine cleanliness, excellent low temperature fluidity, excellent thermal and oxidation stability as well as exceptional wear protection to all engine parts even for long drain interval engine operation.

Applications

Hyrax Enduro SP Plus is highly recommended for severe duty high-performance diesel engines including the latest low-emission engines fitted with EGR system, both on-highway and off-highway such as off-road trucks, construction equipment and power generators operating under extended drain condition as specified by OEMs. It is also suitable for light-duty trucks, four wheel drives (4WD) and sport utility vehicles (SUVs) application.

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
- Excellent TBN (alkalinity reserve) retention capability 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	0.861
Flash Point, °C	ASTM D92	>210
Pour Point, °C	ASTM D97	-33
Viscosity at 40°C, cSt	ASTM D445	100.8
Viscosity at 100°C, cSt	ASTM D445	14.7
Viscosity Index	ASTM D2270	152
Total Base Number, mgKOH/g	ASTM D2896	10.5

Performance

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|-----------------|---------------------|---------------------------|
| ● API CI-4 / SL | ● Cummins CES 20078 | ● Volvo VDS-3 |
| ● ACEA E5 / E7 | ● Renault RLD-2 | ● Mack EO-N |
| ● MTU Type 2 | ● CAT ECF-2 | ● Mercedes-Benz MB p228.3 |
| ● MAN 3275 | ● Deutz QQC III-10 | ● Global DHD-1 |