



Diesel Engine Oils

# hyrax® ENDURO PREMIUM PLUS LE



## Description

**Hyrax Enduro Premium Plus LE** is an ultimate performance environmentally friendly multigrade diesel engine oils specially engineered for used in latest high-output, low-emission engines including those fitted with exhaust after treatment devices such as Diesel Particulate Filter (DPF), Selective Catalyst Regeneration (SCR), Diesel Oxidation Catalyst (DOC) and Exhaust Gas Recirculation (EGR) technology in compliance to the US EPA 2007 and Euro VI emission level.

**Hyrax Enduro Premium Plus LE** is formulated with premium quality base fluids and advanced low-ash additive system, and it permits excellent control over soot induced wear, excellent high temperature piston deposit control, enhanced overall engine wear protection, outstanding engine cleanliness as well as providing excellent cylinder bore polishing protection especially for extended drain interval services.

## Applications

**Hyrax Enduro Premium Plus LE** is highly recommended for used in high performance heavy-duty diesel engines especially the latest low-emission engine fitted with DPF, SCR, DOC and EGR technology, both on-highway and off-highway burning on high or ultra-low sulphur diesel such as off-road trucks, construction equipment, agricultural equipment and power generators. It is also highly recommended for pick-up trucks, four wheel drives (4WD) and sport utility vehicles (SUVs) application.

## Benefits

- Excellent protection against corrosive and soot-induced wears in severe diesel service
- Excellent detergent and dispersant properties for cleaner engine and optimized engine power output
- Excellent thermal and oxidation stability to minimize low-temperature sludge and fuel generated soot build-up as well as high temperature deposits
- Excellent engine performance with extended oil drain capability especially for engines running on ultra-low sulphur diesel fuel
- Advanced low-ash additive system provide outstanding protection to exhaust after treatment devices such as DPF and DOC

## Typical Characteristics

Properties	Method	SAE 15W-40
Density at 15°C, Kg/L	ASTM D4052	0.872
Flash Point, °C	ASTM D92	>210
Pour Point, °C	ASTM D97	-30
Viscosity at 40°C, cSt	ASTM D445	113.1
Viscosity at 100°C, cSt	ASTM D445	14.7
Viscosity Index	ASTM D2270	134
Total Base Number, mgKOH/g	ASTM D2896	9.6

## Performance

- |                 |                 |                     |                             |                            |
|-----------------|-----------------|---------------------|-----------------------------|----------------------------|
| • API CK-4 / SN | • ACEA E9       | • Mack E0-S-4.5     | • Renault RLD-4             | • Ford WSS-M2C171F1        |
| • API CJ-4      | • Cat ECF-3     | • Cummins CES 20086 | • Detroit Diesel DFS 93K222 | • Mercedes-Benz MB p228.31 |
| • API CI-4 Plus | • Volvo VDS-4.5 | • MTU Type 2.1      | • Deutz QDC III-10 LA       |                            |



Excellent protection against corrosive



Excellent engine cleanliness to optimized engine power output



Excellent thermal and oxidation stability



Provide outstanding protection to exhaust system