



# Diesel Engine Oils

## hyrax<sup>®</sup> ENDURO



### Description

**Hyrax Enduro** is a premium quality advanced ultimate-performance multigrade diesel engine oil which is specially formulated using highly refined premium quality base oils and advanced extreme performance additive system engineered for modern, high-output, low-emission engines including those fitted with Exhaust Gas Recirculation (EGR) as well as older turbo-charged engines burning low sulphur diesel or conventional high sulphur diesel fuel and operating under the most severe working conditions.

**Hyrax Enduro** enables longer engine life by ensuring excellent control over soot induced wear and high temperature piston deposit, enhanced wear protection, outstanding engine cleanliness as well as providing excellent cylinder bore polishing protection even for extended drain interval.

### Applications

**Hyrax Enduro** is ideal for high performance heavy-duty diesel engines including the latest low-emission engine fitted with EGR system, both on-highway and off-highway 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 engine service
- Advanced detergent and dispersant properties for excellent engine cleanliness to 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 TBN retention to enable extended drain interval

### Typical Characteristics

Properties	Method	SAE 15W-40	SAE 20W-50
Density at 15°C, Kg/L	ASTM D4052	0.872	0.875
Flash Point, °C	ASTM D92	>210	>210
Pour Point, °C	ASTM D97	-30	-30
Viscosity at 40°C, cSt	ASTM D445	109.5	152.7
Viscosity at 100°C, cSt	ASTM D445	14.9	18.8
Viscosity Index	ASTM D2270	141	139
Total Base Number, mgKOH/g	ASTM D2896	10.5	10.5

### Performance

SAE 15W-40			SAE 20W-50		
● API CI-4 / SL	● Mercedes-Benz MB p228.3	● MAN 3275	● API CI-4 / SL	● Global DHD-1	
● ACEA E5 / E7	● Cummins CES 20077 / 20078	● Volvo VDS-3	● ACEA E5 / E7	● Cummins CES 20078	
● Global DHD-1	● Mack E0-N	● Renault RLD-2	● MAN 3275	● Mercedes-Benz MB p228.3	
● MTU Type 2	● CAT ECF-2	● Deutz DQC III-10	● CAT ECF-1A		



Excellent protection  
against corrosive



Excellent engine cleanliness  
to optimized engine power  
output



Excellent thermal and  
oxidation stability



Excellent TBN retention