



## Diesel Engine Oils

# hyrax® AQUILA



Excellent protection  
against corrosive



Excellent engine cleanliness  
to optimized engine power  
output



Excellent thermal and  
oxidation stability



Excellent TBN retention

### Description

**Hyrax Aquila** is a premium quality advanced high-performance multigrade diesel engine oil specially formulated using highly refined premium quality base oils and advanced extreme performance additive system designed 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 severe working conditions.

**Hyrax Aquila** can prolong engine life by ensuring excellent control over soot induced wear, excellent high temperature piston deposit control, enhanced wear protection, outstanding engine cleanliness and excellent cylinder bore polishing protection especially in long drain interval operation.

### Applications

**Hyrax Aquila** is recommended 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 operation
- 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 TBN retention capability for long drain interval

### Typical Characteristics

| Properties                 | Method     | SAE 15W-40 | SAE 20W-50 |
|----------------------------|------------|------------|------------|
| Density at 15°C, Kg/L      | ASTM D4052 | 0.871      | 0.874      |
| Flash Point, °C            | ASTM D92   | >210       | >210       |
| Pour Point, °C             | ASTM D97   | -30        | -30        |
| Viscosity at 40°C, cSt     | ASTM D445  | 104.6      | 150.4      |
| Viscosity at 100°C, cSt    | ASTM D445  | 14.3       | 18.6       |
| Viscosity Index            | ASTM D2270 | 140        | 139        |
| Total Base Number, mgKOH/g | ASTM D2896 | 9.5        | 9.5        |

### Performance

| SAE 15W-40   | SAE 20W-50  |
|--|---|
| <ul style="list-style-type: none"><li>● API CH-4 / SJ</li><li>● ACEA E5</li><li>● MTU Type 2</li><li>● MAN 3275</li></ul>                            | <ul style="list-style-type: none"><li>● API CH-4 / SJ</li><li>● ACEA E5</li><li>● Mercedes-Benz MB p228.3</li></ul> |
| <ul style="list-style-type: none"><li>● Volvo VDS-3</li><li>● Mercedes-Benz MB p228.3</li><li>● Mack EO-M PLUS</li><li>● Cummins CES 20077</li></ul> | <ul style="list-style-type: none"><li>● Renault RLD</li><li>● CAT ECF-1A</li></ul>                                  |