



Marine & Large Engines Oils

**hyrax<sup>®</sup> LOCOMOTIVE OIL**



### Description

**Hyrax Locomotive Oil** series are a premium quality "zinc-free" LMOA Generation 5, API CF/CF-2 diesel engine oils for use in high and medium speed heavy-duty automotive and high output railroad diesel engines fitted with silver bearings burning distillate fuel with 0.7% weight sulphur content maximum. Formulated with the finest quality base oils and advanced zinc-free, chlorine-free additives system to provide outstanding engine cleanliness, excellent high temperature oxidation and thermal stability, low volatility, excellent load carrying properties and superior corrosion protection. Available in monograde SAE 40 and multigrade SAE 20W-40.

### Applications

**Hyrax Locomotive Oil** is highly recommended for the lubrication of medium-speed General Motors - EMD and General Electric locomotive and marine diesel engines fitted with silver bearings requiring the use of non-zinc containing engine oils. Also highly recommended for Caterpillar 3601 engine.

### Benefits

- Advanced "zinc-free" ashless antiwear additive technology ensure excellent components wear protection and guards against attack of silver plated bearings
- High thermal and oxidation stability ensure excellent high temperature deposits control in areas such as piston under-crown and piston ring belt area enabling piston rings to function efficiently to maintain high power output and engine efficiency and thus reduces fuel and lubricant consumptions
- Good TBN retention characteristics ensure excellent corrosion protection for bronze, copper and silver parts, thereby minimizing corrosive wear even for high sulphur content fuel operations and prolong oil change-out periods
- Reduces overall maintenance cost

### Typical Characteristics

Properties	Method	SAE 40	SAE 20W-40
Density at 15°C, Kg/L	ASTM D92	0.883	0.878
Flash Point, °C	ASTM D92	>210	>210
Pour Point, °C	ASTM D97	-15	-20
Viscosity at 40°C, cSt	ASTM D445	129.5	117.7
Viscosity at 100°C, cSt	ASTM D445	14.3	14.3
Viscosity Index	ASTM D2270	109	123
Total Base Number, mgKOH/g	ASTM D2896	13	13

### Performance

- API CF / CF-2
- GE Generation 4 Long Life
- LMOA Generation 5
- Caterpillar 3601



Premium quality "zinc-free"  
LMOA Generation 5



Minimizing corrosive wear  
and prolong oil change-out  
periods



Excellent high temperature  
deposits control



Excellent fuel  
economy benefits