

#### DESCRIPTION:

Rymax Marlub ZF 40 is high performance, zinc-free (ZF) and chlorine-free oil specially designed to provide excellent engine cleanliness and oil filter life in the modern railroad diesel locomotive engines. These oils are formulated with an additive package endorsed by engine manufacturers and meet the requirements of newer diesel locomotive engines of General Electric (GE) and Electro Motive Division (EMD) of General Motors.

Marlub ZF is applicable for:

- Marine and stationary engines for power generation or off-shore drilling requiring zinc-free oils
- Detroit Diesel 149 series engines operating under severe conditions
- Stationary engines requiring API CF and CF-2 quality oils



#### PERFORMANCE LEVELS:

- API CF / CF-2
- General Motors EMD, GE as Generation 4 Long Life Oils
- GE Diesel Engines
- LMOA Generation 5

#### BENEFITS:

- Exceptional detergency/dispersancy to provide excellent engine cleanliness, especially on engine top decks
- Excellent in-service retention of TBN to facilitate extended drain intervals
- High thermo-oxidative stability to protect against sludge formation
- Zinc-free formulation to protect silver bearings against corrosion
- Non-chlorinated additive package to help reducing used oil disposal costs

#### TYPICAL PROPERTIES

SAE	Unit	40
Density 15 °C	Kg/m3	895
Viscosity 40 °C	cSt	152
Viscosity 100 °C	cSt	15.1
Viscosity Index		103
Pour Point	°C	-27
Flash Point	°C	>201
Total Base Number (TBN)	mg KOH/g	14