



PRODUCT DATA SHEET

GulfSea Diesel GD 40

Zinc-free railroad engine oil

Product Description

GulfSea Diesel GD 40 is zinc-free oil specially designed for railroad diesel locomotive engines. It is formulated with carefully selected additives to provide excellent detergency, dispersancy, good filterability, excellent oxidation stability and in-service BN retention. The zinc-free formulation technology used in this oil makes it suitable for lubrication of engines with silver alloy bearings. It is available in SAE 40 viscosity grade and exceeds the performance requirements of Locomotive Maintenance Officers Association (LMOA) Generation 4 and API CF/CF-2.

Features & Benefits

- Excellent detergency/dispersancy provides superior engine cleanliness.
- Excellent in-service retention of TBN facilitates extended drain intervals.
- High oxidation stability minimizes sludge and deposit formation.
- Zinc-free formulation protect silver bearings against corrosion.

Applications

- Railroad diesel locomotive engines of Electromotive Division (EMD), General Electric (GE) and American Locomotive Company (ALCO) specifying LMOA Generation 4 oils.
- 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.

Typical Properties

GulfSea Diesel GD 40		
Meets the following Specifications		
LMOA Generation 4		
API CF, CF-2		
Typical Properties		
Test Parameters	ASTM Method	Typical Values
Viscosity @ 100 °C, cSt	D 445	15
Viscosity Index	D 2270	97
Flash Point, °C	D 92	246
Pour Point, °C	D 97	-18
BN, mg KOH/g	D 2896	13.3
Density @ 15 °C, Kg/l	D 1298	0.901
Sulphated Ash, wt%	D 874	1.6
Zinc, ppm	ICP < 10	<10

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Due to continual product research and development, the information contain herein is subject to change without notification.
Typical Properties may vary slightly