



A HOLLYFRONTIER BUSINESS

# TECH DATA

## RED GIANT OIL

### MARINE ENGINE OIL

#### INTRODUCTION

Red Giant Marine Engine Oil is an ashless-dispersant, non-zinc, non-chlorinated oil that has been developed to meet the demands of modern marine heavy-duty diesel engines.

Red Giant Marine Engine Oil 20W-40 is a multi-grade 11 TBN, LMOA Generation 7 engine oil that is approved by Progress Rail (formerly EMD) and Wabtec (formerly GE).

#### FEATURES

- Provides extremely good protection against deposits
- Protects engines from corrosive wear
- Extends oil and filter life
- Reduces oil thickening from oxidation
- Neutralizes combustion acids
- Non-chlorinated for easier used-oil recycling
- Fully backwards compatible with older model units operating on low and ultra-low sulphur diesel fuels

#### APPLICATIONS

Red Giant Marine Engine Oil is recommended for turbo-charged or naturally-aspirated marine heavy-duty diesel engines and also stationary engine applications. This marine engine oil does not contain any zinc additives and therefore it is purpose-designed for use in engines that have silver alloy bearings.

Red Giant Marine Engine Oil 20W-40 is approved for use in the following applications:

- EMD 567, 645, 710 and 1010 engines, meeting EPA Tier 4 and previous emission standards
- In GE diesel engines where low and ultra-low sulphur fuels are used, including Tier 4 emission level and backwards compatible to prior levels

## TYPICAL PERFORMANCE DATA

| TYPICAL INSPECTIONS  | ASTM TEST METHOD        | RED GIANT MARINE ENGINE OIL 20W-40 |
|--|-------------------------|------------------------------------|
| SAE Grade  | -                       | 20W-40                             |
| Product Code   | -                       | RGM24G7                            |
| Density @ 60°F, lbs/gal  | D6822                   | 7.300                              |
| API Gravity  | D287                    | 29.9                               |
| Flash Point, COC, °C (°F)  | D92                     | 253 (487)                          |
| Kinematic Viscosity<br>cSt @ 40 °C<br>cSt @ 100 °C               | D445                    | 138<br>15.4                        |
| Viscosity Index  | D2270                   | 115                                |
| Cold Cranking @ -15 °C, cP                                       | D5293                   | 8380                               |
| Pour Point, °C (°F)  | D5950                   | -15 (5)                            |
| Base Number, mg KOH/g  | D2896                   | 11                                 |
| Sulfated Ash, % wt   | D874                    | 1.0                                |
| Elemental Analysis<br>Sulphur, %<br>Zinc, ppm<br>Phosphorus, ppm | D4294<br>D4951<br>D4951 | 0.19<br><1<br><1                   |

The values quoted above are typical of normal production. They do not constitute a specification.

Learn more about us: [redgiantoil.com](http://redgiantoil.com)

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2020.07