



# Product Bulletin

## GULF<sup>®</sup> DIESELMOTIVE 494

**Gulf<sup>®</sup> Dieselmotive 494** represents the latest advancement in zinc free railroad diesel engine oil technology. It is a unique '**Functionalized Monograde<sup>™</sup>**' that maintains the reduced oil consumption cost savings of a multi-viscosity engine oil while providing improved performance characteristics.

### FEATURES AND BENEFITS:

**Gulf<sup>®</sup> Dieselmotive 494** is designed to meet the changing needs of today's railroad diesel engines in light of progressive emission standards and the use of low sulfur and ultra low sulfur fuels. The enhanced additive system employed in **Gulf<sup>®</sup> Dieselmotive 494** offers reduced SAPS (sulfated ash, phosphorous and sulfur), advanced detergency and dispersancy technology and increased yellow metal wear protection critical to satisfactory operation and long component life of exhaust aftertreatment devices such as particulate filters and oxidation catalysts. The exceptional Total Base Number retention and oil consumption reduction characteristics of this oil are directly linked to its superior oxidation control, viscosity retention/shear stability, acid production control and wear protection. **Gulf<sup>®</sup> Dieselmotive 494** offers the highest levels of oil performance and quality to insure superior engine productivity, utilization and reduced life-cycle maintenance costs.

### APPLICATIONS:

**Gulf<sup>®</sup> Dieselmotive 494** is recommended for medium speed two-cycle and four-cycle diesel engines such as those typically employed in railroad locomotives and certain marine applications. This product carries recognition as an LMOA Generation V performance oil. It is also approved by General Electric as a Generation 4 Long Life Oil, and is on the internal listing of Electro-Motive Diesel (EMD).

### AVAILABILITY:

**Gulf<sup>®</sup> Dieselmotive 494** is available throughout Gulf's marketing area. Your Gulf representative or Gulf jobber can provide specific information. Need additional information? Call Gulf @ 1-800-566-GULF (4853).



## Gulf® Dieselmotive 494 – Typical Properties

<b>SAE Grade</b>		<b>40</b>
Product Code	<b>Test Method</b>	335615
Viscosity, cSt @ 40°C	ASTM D-445	137
Viscosity, cSt @ 100°C	ASTM D-445	14.7
Viscosity Index	ASTM D-2270	106
Color	ASTM D-1500	Opaque
Pour Point, °F (°C)	ASTM D-5949	0 (-18)
Flash Point, °F (°C)	ASTM D-92	450 (232)
TBN, (mg KOH/g)	ASTM D-2896	9.2
Sulfated Ash, mass %	ASTM D-874	1.0
API Gravity, 60°F	ASTM D-4052	27.8
Density, lbs/gal (g/L)	Calculated	7.397 (886)
Zinc, ppm (Max.)	Method 16	10
KF Moisture, ppm (Max.)	ASTM D-6304	1000