



LUBRICANTS

# Product Data Sheet

## Gulf Dieselmotive™ 711T4 Railroad Engine Oil

**Zinc-free, Chlorine-free, 11 TBN, EPA Tier 4 Compliant**

Premium, locomotive crankcase oil designed to provide optimum engine protection for high horsepower, turbocharged two- and four-cycle engines often found in railroads, certain marine and stationary power generation units where **zinc free** oils are required. Highly suited in meeting EPA Tier 4 emission requirements.

### Features and Benefits

- Excellent detergent, dispersant and anti-wear performance
- Backwards compatible with previous EMD and GE model engines
- Latest reduced ash (11 TBN) additive chemistry for modern railroad locomotive diesel engines
- Excellent retention of Base Number (BN) to protect engines against corrosive combustion by-products

### Applications

- Locomotive Maintenance Officers Assoc. (LMOA) Generation 7
- Progressive Rail (formerly EMD) and Wabtec (formerly GE) power units running on low or ultra-low sulfur diesel fuel
- Engines that utilize silver alloy bearings and bushings that are often found in older EMD diesel engines

### Typical Properties

SAE Grade	Test Method	40	20W-40
Product Code		<b>335625</b>	<b>335630</b>
Viscosity, cSt @ 40°C	ASTM D 445	140.0	138.0
Viscosity, cSt @ 100°C	ASTM D 445	14.7	15.2
Viscosity Index	ASTM D 2270	105	112
CCS Viscosity, cP @ -15°C	ASTM D 5293	--	7800
Pour Point, °F (°C)	ASTM D 5949	-26 (-32)	-26 (-32)
Flash Point, °F (°C)	ASTM D 92	478 (248)	489 (254)
TBN, (mg KOH/g)	ASTM D 2896	11	11
Sulfated Ash, mass %	ASTM D 874	1.15	1.15
Zinc Content, max.ppm	ICP	<10	<10
Specific Gravity, 60°F	ASTM D 4052	0.88	0.88

Always follow manufacture's recommendations for proper selection of engine oil quality and viscosity grade

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