

# FS Railroad Engine Oil

## SAE 20W-40, 11 TBN

---

---

### Description

FS Railroad Engine Oil is formulated to provide year-round lubrication in two- and four-cycle, low- and high-horsepower, turbocharged, railroad, marine, and stationary medium-speed diesel engines requiring zinc-free lubrication. Its optimized additive formulation has a reduced ash content and incorporates advanced dispersant technology. It enhances oxidation and thermal stability and improves yellow metal wear protection. FS Railroad Engine Oil is formulated to provide low- and ultra-low-sulfur diesel consumption, lower deposits, and longer filter life.

### Features and Benefits:

- OEM approval
- Meets current GE and EMD specifications
- Qualifies for unrestricted use in GE and EMD high-horsepower turbo-charged diesel engines
- No warranty restrictions
- Improved anti-wear for component life along with improved bearing and metal wear protection
- Optimized TBN levels formulated for use with low- and ultra-low-sulfur diesel fuels
- Extended oil drain intervals
- Extended filter life
- Improved cold weather starting
- Zinc-free protection

### Applications:

- All two- and four-cycle, naturally aspirated, or turbocharged medium-speed diesel engines
- Railroad, marine, and stationary engines where zinc-free lubrication is required
- EMD 567, 645, 710, and 1010 engines, meeting EPA Tier 4 and previous emission standards
- Generation 7
- GE diesel engines where low and ultra-low sulfur fuels are used, including Tier 4 emission levels

### Product Availability:

FS Railroad Engine Oil SAE 20W-40, 11 TBN

55-gal. Drum                      Item #395844

265-gal. Totes                    Item #395845

Bulk                                    Item #396213



## Typical Properties:

Test / Description	Specification
<b>SAE Grade</b>	<b>20W-40</b>
<b>Viscosity @ 100°C (cSt)</b> ASTM D445	15.4
<b>Viscosity @ 40°C (cSt)</b> ASTM D445	138
<b>Viscosity Index</b> ASTM D2270	115
<b>Density @ 60°F (lb/gal)</b> ASTM D6822	7.300
<b>CCS Viscosity @ -15°C, (cP)</b> ASTM D5293	8,380
<b>Pour Point °C (°F)</b> ASTM D5950	-15 (5)
<b>Flash Point °C (°F)</b> ASTM D92	253 (487)
<b>TBN</b> ASTM D2896	11
<b>API Gravity</b> ASTM D287	29.9
<b>Sulfated Ash (% wt)</b> ASTM D874	1.0
<b>Sulphur (%)</b> ASTM D4294	0.19
<b>Zn (PPM)</b> ASTM D4951	<1.0
<b>Phosphorus (PPM)</b> ASTM D4951	<1.0