



Product No: 590282, 590291, 589020, 590274, 587411, 587235

SilverGard™ Railroad Engine Oil

Zinc-Free Locomotive, Marine, and Industrial Engine Oil; Protects Silver Bearings in Railroad Type Diesel Engines; Fully Approved by General Electric and GM Electro-motive



Description

SilverGard™ Railroad Engine Oils are fully approved, premium quality, zinc-free diesel engine oils designed for use in two-stroke and four-stroke cycle locomotive engines in railroad, marine, or industrial service. SilverGard™ uses new, LMOA 5th generation technology.

SilverGard™ uses state-of-the-art additive technology and provides increased wear protection, soot control, and thermal stability for use in the latest GE and EMD engines designed for use with low sulphur and ultra-low sulphur fuels. This additive technology yields greater than 9 TBN and 1% sulphated ash level and is fully compatible with older engines formerly using higher TBN oils and high sulphur fuels.

SilverGard™ provides exceptional engine cleanliness and can be used for extended drain intervals per manufacturer's recommendations. This product is zinc and chlorine free and protects silver bearing used in locomotive type engines. Also provides exceptional corrosion protection for brass and bronze components found in certain engines.

Application

- Railroad locomotives
- Marine power plants using locomotive type engines
- Locomotive engines used in power generation applications
- Locomotive engines used in oil and natural gas exploration and development

Benefits

- Outstanding engine cleanliness
- Designed for use with today's low sulphur and ultra-low sulphur fuels
- Special base oils minimize blocked ports on two-stroke cycle engines
- Outstanding protection against sludge and varnish formation
- Prevents corrosion of copper and brass



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PERFORMANCE LEVELS

General Electric	Approved for GE Locomotive Engines
CAT Electro-Motive	Approved for Caterpillar EMD Locomotive Engines
Other Engine Makers	Recommended for use in locomotive engines built by Alco, MTU, Lima, Baldwin, Fairbanks Morse, Cleveland, Caterpillar

TYPICAL PROPERTIES

	Method	SilverGard SAE 40 RREO	SilverGard 20W-40 RREO
SAE Viscosity Grade	SAE J300	40	20W-40
API Gravity	D-1298	28.1	28.9
Viscosity, cSt at 40°C	D-445	116.3	105.3
Viscosity, cSt at 100°C	D-445	13.1	14.7
Viscosity Index	D-2270	106	144
Ash, % Sulphated	D-874	< 1.0	< 1.0
Neutralization No. (TBN)	D-2896	9.23	9.21
Zinc Content, ppm	D-4951	10	10
Flash Point, COC °C (°F)	D-92	259 (498)	256 (493)
Pour Point, °C (°F)	D-97	-15 (5)	-15 (5)
Color, ASTM	D-1500	L 8.0	L 8.0
Martin Lubricants Bulk Number		588781	590670

The information on this Product Data Sheet is believed to be accurate and is typical of current production. Specifications are subject to change without notice. For additional qualifications, please contact Martin Technical Service Department.

Health and Safety Information: See separate Safety Data Sheets available on request.

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