



SILVERGARD
RAILROAD ENGINE OIL

Zinc-Free Engine Oil
Protects Silver Bearings in Railroad Type Diesel Engines



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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 LMOA 6th generation technology.

SilverGard uses state-of-the-art additive technology and provides increased wear protection, soot control, and thermal stability for use in tier IV GE and EMD engines designed for use with low sulphur and ultra-low sulphur fuels. This additive technology 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 choline free and protects silver bearing used in locomotive type engines. Also provides exceptional corrosion protection for brass and bronze components found in certain engines.

BENEFITS

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

APPLICATION

- Railroad locomotives
- Marine engines specifying this oil type
- Power generation units requiring this oil type
- Locomotive engines used in oil and gas production

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	SAE 40	SAE 20W-40
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	10.6
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



NOTE:

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.

Health And Safety Information See separate Safety Data Sheets available on request.

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