

Delo[®] 710 LS

Zinc-Free Railroad Diesel Engine Oil



Product description

Delo[®] 710 LS is industry leading, premium diesel engine oil for use in GE and EMD Tier 4 engines in marine, railroad and power generation applications.

Delo 710 LS uses premium quality base oils that are exceptionally pure, with extremely low levels of sulfur, nitrogen and aromatics to enhance oxidation resistance.

Delo 710 LS employs complex detergents, advanced dispersants and superior oxidation and wear inhibitors to effectively address the deleterious effects of lower oil consumption and engine modifications in new and re-manufactured Tier 4, Tier 3, Tier 2+, Tier 1+ and Tier 0+ locomotives.

Customer benefits and product features

Customer benefits

- **Reliable operation**

Excellent oxidation stability, soot dispersancy and base retention to promote outstanding oil life. It uses an optimized additive formulation with reduced ash and advanced dispersant technology to help minimize exhaust system and turbo-charger deposits.

- **Inventory simplicity**

Zinc-free, Phosphorus-free and non-chlorinated. Compatible with earlier generation EMD and GE approved engine oils. Miscible with competitive railroad type oils and additive system when engine manufacturers recommended practices are followed.

- **Reduces Oil consumption**

SAE 20W-40 helps provide oil consumption reduction* versus the traditional mono-grade engine oils.

*Oil consumption reduction vary depending on engine duty cycle, engine age, parts and operations

Applications

- Recommended for diesel engines using LSD or ULSD fuels where Zn-free oils are required in the following application:
 - Railroad
 - Marine
 - Off-shore drilling and Production
 - Stationary Power generation
- Delo 710 LS is approved for use in GE and EMD for Tier 4 compliant engines and is backwardly compatible with all previous engines.

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Product approvals, performance, and recommendations

Performance standards

- Approved for LMOA Generation 7 Designate for GE engines (which supersedes the performance requirements of LMOA Generation 6)
- Approved by Progress Rail (a Caterpillar company) for used in EMD engines inclusive Tier 4 emission and older generation locomotive engines

Typical Test Data

DELO [®] 710 LS	TEST METHOD	RESULT	
SAE Grade		20W-40	40
Product Code		550010	550011
Base No., mg KOH/g	ASTM D2896	10.5	10.5
Zinc, ppm,		10 max	10 max
Sulfated Ash, m %	ASTM D874	1.15	1.15
Viscosity, mm ² /s @ 100°C	ASTM D445	15.5	14.8
mm ² /s @ 40°C	ASTM D445	135.8	140.5
Viscosity Index	ASTM D2270	116	102

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ENVIRONMENT, HEALTH and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the [Product Information Center](#).

This Product Data Sheet (PDS) was produced for the Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center.

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