Delo® 710 LE SAE 20W-40, 40

High performance diesel engine lubricant

Product description

Delo 710 LE is a high performance diesel engine lubricant designed for use in EMD and GE engines in railroad, marine and power generation applications. Delo 710 LE is specifically formulated for use in engines running on low sulphur, ultra low sulphur and in low emissions engines.

Formulated with premium base oils, Delo 710 LE has high purity and is very low in sulphur, nitrogen and aromatics, helping enhance oxidation resistance. Delo 710 LE is zinc-free and chlorine-free and is formulated with latest generation dispersants, detergents and oxidation inhibitors designed to promote optimum lubricant service life and minimal ash content.

Customer benefits

- Designed to offer high performance wear protection in railroad, marine and power generation applications, helping reduce costs
- Advanced keep-clean formulation offers optimum engine cleanliness with reduced maintenance downtime
- Helps reduce exhaust system and turbocharger deposits, contributing to increased uptime and system efficiency
- Offers oxidation stability and soot dispersancy performance and base retention for long oil life in low consumption power plants
- SAE 20W-40 helps provide a 15% to 25% oil consumption reduction when compared with single grade engine oils

Product highlights

- **Designed for high performance wear protection**
- **Advanced keep-clean formulation**
- **Helps reduce exhaust system and turbocharger deposits**
- **Offers long service life in low consumption power plants**
- **SAE 20W-40 helps provide 15% to 25% oil consumption reduction over a monograde**

Selected specification standards include:

Electro-Motive Diesel	General Electric
LMOA	

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

Applications

- Delo 710 LE is recommended for diesel engines using low sulphur and ultra low sulphur fuels; with or without exhaust aftertreatment; where zinc-free lubricants are required in the following applications:
  - Railroad
  - Marine
  - Offshore drilling and production
  - Stationary power generation

  Sporadic use in combination with high sulphur fuel is only allowed when a strong used oil analysis program is possible. Close monitoring of the base number is essential.
- Delo 710 LE is compatible with earlier generation EMD and GE approved engine oils
- Delo 710 LE is miscible with competitive railroad type oils and additive systems when engine manufacturers recommended practices are followed

Approvals, performance and recommendations

Approvals

- Electro-Motive Diesel — LMOA Generation 5 (SAE 20W-40)
  LMOA Generation 6 (SAE 40)
- General Electric — LMOA Generation 4 Long Life (SAE 20W-40)
  LMOA Generation 6 (SAE 40)

Performance

- LMOA — Generation 6
- General Electric — LMOA Generation 6 (SAE 20W-40)

Recommendations

- Delo 710 LE SAE 40 is suitable for use in Electro-Motive Diesel LMOA Generation 5 and General Electric LMOA Generation 4 Long Life

Typical test data

Test	Test Methods	Results	
Viscosity Grade		**SAE 20W-40**	**SAE 40**
Shelf Life: 60 months from date of filling indicated on the product label			
Density at 15°C, kg/l	ASTM D4052	0.880	0.881
Kinematic viscosity at 40°C, mm^2/s	ASTM D445	136.4	140.7
Kinematic viscosity at 100°C, mm^2/s	ASTM D445	15.4	15.0
Viscosity Index	ASTM D2270	113	109
Pour point, max °C	ASTM D5950	-27 typ, -26 max	-22
Total Base Number, mg KOH/g	ASTM D2896	9.2	9.1
Sulphated Ash, %wt	ASTM D874	1.0	1.0
Flash	ASTM D92	230	250

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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