



Delo 710 LS

High performance railroad, marine and power generation engine oil

Product description

Delo[®] 710 LS high performance diesel engine oil is designed for use in GE and EMD engines in railroad, marine and power generation. It is formulated for use in engines using low sulphur diesel (LSD) and ultra-low sulphur diesel (ULSD) fuels, and new low emission engines.

Delo 710 LS is formulated with premium base oils with very low sulphur, nitrogen, and aromatic levels, and advanced detergents, dispersants with oxidation and wear inhibitors to help optimise oil consumption in new and re-manufactured Tier 4, Tier 3, Tier 2+, Tier 1+ and Tier 0+ locomotives.

Customer benefits

- Designed to fully optimise wear protection and engine cleanliness, helping minimise exhaust system and turbocharger deposit formation
- Formulated for reliable oxidation, soot dispersancy and base retention and long oil life with new, low consumption power assemblies
- SAE 20W-40 grade helps reduce oil consumption by up to 15% to 25%, depending on engine duty cycle versus single grade engine oils
- Formulated specifically for engines using low and ultra-low sulphur diesel fuels
- Zinc free, Phosphorus free and non-chlorinated

Product highlights

- **Designed to maximise wear protection and cleanliness**
- **Offers reliable oxidation and soot resistance**
- **Helps reduce oil consumption**
- **Formulated for low and ultra-low sulphur diesel fuels**
- **Zinc free, Phosphorus free and non-chlorinated**

Selected specification standards include:

General Electric

Progress Rail

Applications

Delo 710 LS is recommended for diesel engines using LSD or ULSD fuels; with or without exhaust after treatment systems, where Zinc free oils are required in the following applications:

- Railroad locomotives
- Marine engines
- Offshore drilling and production
- Stationary power generation

Delo 710 LS is formulated for GE and EMD engines used in a wide range of railroad, inland marine, and stationary engine applications.

Delo 710 LS is compatible with earlier generation GE and EMD approved engine oils.

Delo 710 LS is miscible with competitive railroad type oils and additive systems when engine manufacturers recommended practices are followed.

Approvals, performance and suitable for use

Approvals

- General Electric LMOA Generation 7 (which supersedes the performance requirements of LMOA Generation 6)
- Progress Rail^o approved by Progress Rail for use in EMD engines, including Tier 4 emission and older generation locomotive engines

^o Caterpillar EMD claims have been replaced by Progress Rail claims

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, 15 °C, kg/l | ASTM D4052 | 0.875 | 0.877 |
| Viscosity, Kinematic at 40 °C, mm ² /s | ASTM D445 | 135.8 | 140.8 |
| Viscosity, Kinematic at 100 °C, mm ² /s | ASTM D445 | 15.5 | 14.8 |
| Viscosity Index | ASTM D2270 | 116 | 102 |
| Pour Point, °C | ASTM D97 | -30 | -30 |
| Total Base Number, mg KOH/g | ASTM D2896 | 10.5 | 10.5 |
| Sulphated Ash, %wt | ASTM D874 | 1.15 | 1.15 |
| Flash Point, °C | ASTM D92 | 230 | 265 |

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

VN: P3/100223

Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.

When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see www.texacolubricants.com.

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.

A Chevron company product