



Product Data

Duratec LD

For Longer Drains and Continuous Operations

Description

Duratec LD is a low ash gas engine oil designed with the total base number required to maintain engine cleanliness, provide resistance to acid corrosion, and protect the engine from wear throughout the lifetime of the oil.

Application

Stationary gas engines are running at higher pressures to deliver greater efficiency and to reduce emissions. This higher Brake Mean Effective Pressure (BMEP) means higher engine temperatures causing faster oil degradation. Shortened oil drain intervals can lead to an increased risk in engine component failure.

Castrol Duratec LD is formulated with modern gas engine additives and high quality base oils to delay oil degradation and to extend oil drain intervals.

Approval Status

Castrol Duratec LD is approved for use by several OEMs after demonstrating required performance in field testing (all fuel gas class A unless stated otherwise);

- INNIO Jenbacher - all versions of engine types 2,3,4 and 6, including J624
- Rolls Royce
- Waukesha
- MWM (landfill, bio and sweet natural gas)

Castrol Duratec LD also meets the requirements for use in Caterpillar engines.

Fuel Gas Class A: Sweet Natural Gas (Sulphur < 200 mg/10 kWh), Associated Petroleum Gas, Mine Gas, Biogas (Sulphur < 200 mg/10 kWh).

Advantages

Duratec LD has demonstrated in OEM approval field testing to:

- Maintain engine cleanliness
- Resist corrosion and protect the engine from wear throughout the oil lifetime
- Sustain film thickness, even at high temperatures.
- Delay oil degradation in severe gas engines, prolonging oil life giving a longer drain intervals

Castrol Duratec LD has lasted up to 20% longer than the recommended service interval in severe field trials *

* tested in modern gas engine from a leading provider vs the OEM recommended service interval.

Typical Characteristics

| Name | Method | Units | Typical Values |
|-------------------------------|------------|----------|----------------|
| Relative Density at 15°C | ASTM D4052 | g/ml | 0.87 |
| Appearance | Visual | - | Clear & Bright |
| Colour | ASTM D1500 | - | 2 |
| Viscosity, Kinematic at 40°C | ASTM D445 | mm²/s | 108.8 |
| Viscosity, Kinematic at 100°C | ASTM D445 | mm²/s | 13.0 |
| Viscosity Index | ASTM D2270 | - | 115 |
| Total Base Number | ASTM D2896 | mg KOH/g | 7.3 |
| Flash Point, PMCC | ASTM D93 | °C | 223 |
| Flash Point, COC | ASTM D92 | °C | 268 |
| ASTM Noack Volatility | ASTM D5800 | % w t | 4.7 |
| Pour Point | ASTM D97 | °C | -18 |
| Sulphated Ash | ASTM D874 | % w t | 0.5 |
| Phosphorus | ASTM D4951 | ppm | 300 |

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to sunlight or freezing conditions.

Duratec LD
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