



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 and meet requirements for use by several OEMs after demonstrating required performance in field testing (all natural gas unless stated otherwise);

- Bergen - B35:B40, B36:45, C26:33 and K-engines
- Caterpillar - 3516H
- INNIO Jenbacher - Type 2 and 3 (gas type A), type 4A (gas type A), type 4B and 4D (gas type A), type 4C (gas type A), type 6C and 6E (gas type A), type 6H and 6K (gas type A), type 6F and 6J (gas type A) engines *
- INNIO Waukesha - VHP 7044 GSI (series 4) and VHP 7044 GSI (series 5), 12V220GL/ 18V220GL engines **
- MWM - TCG 2016, 2020, 2032, 3016, 3020 and 2032B engines
- MWM Caterpillar - CG132, CG132B, CG170, CG170B, CG260, CG260 (4.5) engines
- Wärtsilä - 175SG, 220SG, 25SG, 28SG, 31SG, 34SG, 50SG, 20DF, 25DF, 31DF, 32DF, 34DF, 46DF and 50DF engines

* Gas type A (natural gas)

** Pipeline quality gas

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.

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