



Guardol QLT® Motor Oil

76® Guardol QLT Motor Oil is a premium quality universal fleet engine oil designed for use in on-highway diesel trucks and off-highway diesel equipment, as well as in passenger cars and light trucks with either diesel or gasoline engines. It is recommended for use both in EGR-equipped diesel engines and in older, non-EGR diesel engines. It also will provide excellent protection for gasoline engines for use in mixed commercial fleets.

Guardol QLT is formulated with advanced additive technology and 76's unique QLT® chemistry to provide outstanding wear protection, soot control and bearing corrosion protection. Outstanding soot dispersancy protects against abrasive wear and soot-induced oil thickening, and ensures good low-temperature pumpability even with soot-laden oil. High dispersancy-detergency and a high alkaline reserve (TBN) provide extra protection in extended drain or severe service intervals, and in EGR-equipped engines.

Guardol QLT meets or exceeds the performance requirements of API Service Categories CI-4 and SL, API CI-4 PLUS, and leading OEM specifications and worldwide standards for diesel engine oils.

Applications

- On-highway diesel trucks equipped with cooled-EGR, ACERT or other technologies to meet 2004 and earlier exhaust emission standards
- Older diesel equipment with conventional, non-EGR engines
- Mixed fleets with both diesel and gasoline-fueled vehicles
- Off-highway construction, earth moving and mining equipment
- Farm equipment with diesel or gasoline engines

Guardol QLT meets or exceeds the requirements of:

- API Service CI-4 with CI-4 PLUS, CI-4, CH-4, SL
- ACEA E7-04, E5-02, E3-96
- Caterpillar ECF-2, ECF-1a
- Cummins CES 20078, CES 20077
- Detroit Diesel Power Guard 93K214
- Global DHD-1
- Mack EO-N Premium Plus 03

**Premium
Universal Fleet
Engine Oil**

Customer Service
Number:
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- MAN 271, 3275
- Mercedes-Benz Sheet 228.3
- MTU MTL 5044 Type 2
- Volvo VDS-3
- Diesel engines manufactured by OEMs not listed above, including International (Navistar), John Deere, Hino, Komatsu, Kubota and others

Features/Benefits

- Outstanding soot control for protection against abrasive wear and soot-induced oil thickening
- Excellent resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Excellent wear protection
- High shear stability
- Excellent rust and bearing corrosion protection
- Good low-temperature pumpability, even with soot-laden oil
- Good resistance to foaming and aeration
- Extended drain capability for non-EGR diesel engines

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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Typical Properties

SAE Grade	15W-40
Specific Gravity @ 60°F	0.880
Density, lbs/gal @ 60°F	7.33
Color, ASTM D1500	L 4.0
Flash Point (COC), °C (°F)	225 (437)
Pour Point, °C (°F)	-40 (-40)
Viscosity, Kinematic	
cSt @ 40°C	113
cSt @ 100°C	15.2
Viscosity Index	139
Cold Cranking Viscosity, cP @ -20°C	6,500
High-Temp/High-Shear Viscosity, cP @ 150°C	4.3
Sulfated Ash, ASTM D874, wt %	1.48
Total Base Number (TBN), ASTM D2896	12.2
Zinc, wt %	0.145

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

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