

Glass Heavy Duty Diesel Engine Oil SAE 15w40

API CK-4

Product Data Sheet

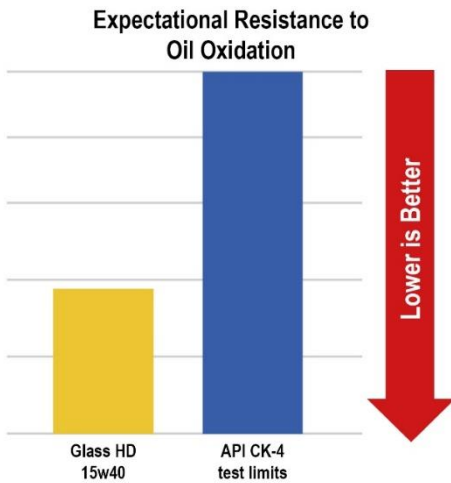


Glass Heavy Duty 15W40 Diesel Engine Oil is the latest generation premium heavy-duty motor oil that meets or exceeds the service requirements of virtually all diesel engines manufactured—including 2017 greenhouse gas (GHG17) compliant, EPA 2010 low emissions requirements with SCR, DFP and EGR systems. This innovative product is compatible with all previous API diesel engines service categories for older engines in both on- and off-highway applications.



Benefits include:

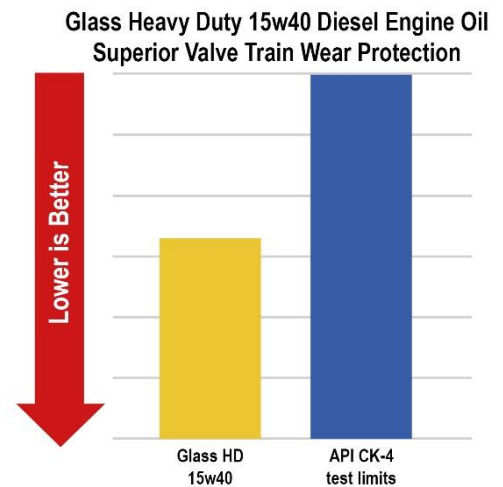
- Minimize inventory—one product for all diesel engines*
- Significantly improved wear protection, deposit and viscosity control and oxidation resistance
- Excellent protection and durability demonstrated in control of valve train wear and piston ring and liner wear, helping to prolong engine life
- Improved soot control and exclusive detergent system for outstanding engine cleanliness
- Exceptional low temperature flow properties help speed cold starts
- Protection and lubrication throughout the extended oil drain interval
- Improved fuel economy
- Outstanding shear stability for viscosity control



Performance comparison based on results from Volvo T-13, test results are based on percent calculators.

The new API CK-4 robust Volvo T-13 lubricant engine test evaluates the oxidation stability performance of engine oils at an elevated oil temperature. **Glass Heavy Duty 15W40 Diesel Engine Oil** exceeds the API CK-4 oil oxidation by 60%. Today's higher working engine temperatures need exceptional oxidation control.

In this severe duty Cummins ISB engine test, **Glass Heavy Duty 15W40 Diesel Engine Oil** shows superior valve train wear protection against API CK-4 limits by providing up to 50% wear reduction. Less wear = longer life.



Performance comparison based on results from Cummins ISB, test results are based on percent calculators.

*Excludes FA-4



HUBERT GLASS
OIL CO.

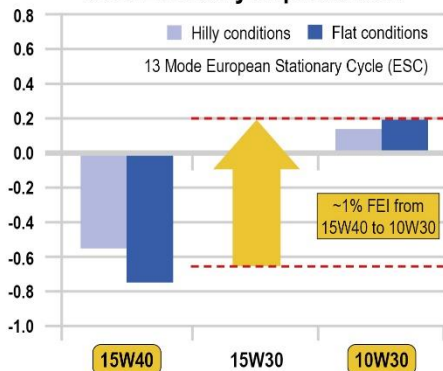
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Fuel Economy Improvement



Glass Heavy Duty 15W40 Diesel Engine Oil provides up to 1.5% fuel economy improvement over other 15W40 products (engine design and operating cycle dependent).

Typical Physical Properties

Viscosity @ 40°C / 104°F	116.3 cSt	Flash point, COC	230°C / 446°F
Viscosity @ 100°C / 212°F	14.8 cSt	TBN	8.8
Viscosity index	131	Sulfated ash, %-wt	1.0 max
Pour point	-43°C / -45.4°F		

Use where the following specifications are recommended:

- ACEA E9-2016
- API-CK4 / CJ-4 / CI-4 PLUS / CI-4 / CH-4 / CG-4 / SN / SM / SL
- Caterpillar ECF-1 / ECF-2 / ECF-3
- Cummins CES 20086 / 20081 / 20077
- Detroit Diesel 93K222
- Ford WSS M2C171-F1
- JASO DH-2
- Mack EOS-4.5
- MAN M3575
- Mercedes Benz (Daimler) 228.31
- MTU 2.1
- Renault RLD-4 / RLD-3
- Volvo VDS 4.5 / VDS 4

