



LUBRICANTS



# Product Data Sheet

## Gulf Super Duty Synthetic HD

### *Synthetic Heavy Duty Diesel Engine Oil*

Full synthetic, heavy duty engine oil formulated to meet or exceed the requirements of most major manufacturers of diesel engines. It is recommended for modern turbo-charged, low emission diesel engines used in on- and off-highway equipment. Suitable for new and older diesel-powered vehicles from Class 8 tractors / trailers to heavy utility and delivery fleets. Excellent choice for most Detroit Diesel, Cummins, Mack, and Caterpillar units.

### Features and Benefits

- Enhanced fuel economy
- Excellent low temperature performance provides for superior cold starting
- Outstanding high temperature protection
- Extended oil drain intervals
- Synthetic base oil for added oxidation stability

### Approvals

- API CK-4/SN

### Applications

- API CK-4, CJ-4, CI-4 Plus / SN
- Caterpillar ECF-3, ECF-2
- Ford WSS-M2C171-F1
- Volvo VDS-4.5, VDS-4
- Detroit Diesel 93K222, 93K218
- Mercedes Benz 228.31
- Cummins CES 20086, 20081
- ACEA E9-12
- JASO DH-2
- MAN M3575
- MTU Category 2.1
- International (Navistar) diesel engines



1-800-566-4853



Tulsa, OK 74133



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## Typical Properties

SAE Grade	Test Method	5W-40
Product Code		331501
Viscosity cSt @ 40°C	ASTM D-445	94.5
Viscosity cSt @ 100°C	ASTM D-445	15.4
Viscosity Index	ASTM D-2270	173
Cold Cranking at temp °C, cP, D-5293	ASTM D-5293	5200 at -30°C
Pumping, MRV, at temp °C, cP, D-4684	ASTM D-4684	30,500 at -35°C
High Shear, HTHS, cP, D-4683	ASTM D-4683	4.05
Pour Point, °F, Typical	ASTM D-5949	-42°F
Total Base Number (TBN), D-2896	ASTM D-2896	11.0
Color	ASTM D-1500	L5.0
Sulfated Ash, mass%	ASTM D-874	1.0 max.
Flash Point, COC, °F	ASTM D-92	450°F

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