



Product Bulletin

GULF SUPER DUTY SYNTHETIC HD SYNTHETIC HEAVY DUTY DIESEL ENGINE OIL

Gulf Super Duty Synthetic HD Diesel Engine Oil, SAE 5W-40 is a full synthetic, heavy duty engine oil formulated to meet or exceed the requirements of most major manufacturers of diesel engines. It is formulated with synthetic base fluids that provide extra thermal stability, oxidation resistance, shear stability, high-VI and excellent low-temperature fluidity. It meets certain requirements of Detroit Diesel, Cummins, Mack, Caterpillar and Allison. This fluid also meets the requirements of **API CK-4/SN**.

Enhanced fuel economy can be expected when using **Gulf Super Duty Synthetic HD** engine oil due to its enhanced fluid friction properties and lowered operating temperatures. It also provides for superior cold starting and faster startup lubrication compared to conventional 15W-40 engine oils.

Gulf Super Duty Synthetic HD SAE 5W-40 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.

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
- Mack EOS-4.5
- Mack EO-O Premium Plus
- Cummins CES 20086, 20081
- ACEA E9-12
- JASO DH-2
- MAN M3575
- MTU Category 2.1
- International (Navistar) diesel engines
- Renault VI RLD-4, RLD-3



Typical Properties

SAE Grade		5W-40
Product Code	Test Method	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

AVAILABILITY:

Gulf Super Duty Synthetic HD 5W-40 is available throughout Gulf's marketing area. Your Gulf representative or can provide specific information. Need additional information? Call **Gulf** @ 1-800-566-GULF (4853) or visit Nu-tierbrands.com.

NU-TIER BRANDS, INC.