



LUBRICANTS

Product Data Sheet

Gulf Super Duty Plus

Advanced Heavy Duty Diesel Engine Oil

Provides advanced engine protection with “**next-generation**” additive technology designed to meet modern on-highway low emission diesel engines. **Gulf Super Duty Plus** meets or exceeds the newest **API CK-4** engine oil specification and provides outstanding wear protection necessary to satisfy the performance requirements of most North American on-highway diesel trucks. **Gulf Super Duty Plus Engine Oils** will replace today’s lubricants and will be backwards compatible with previous HD diesel engine oils.

Features and Benefits

- Shear Stable - Maintains critical film thickness over extended use promoting extended drains
- Hydro-Treated Base Oil – high purity base oils provide excellent on-highway and off-highway performance
- Next-Generation Chemistry – improved fuel economy, engine wear protection, enhanced oxidation stability
- Advanced Aeration Control - passes new Caterpillar engine oil foam testing-proven to reduce entrained air

Approvals

- API Service: CK-4
- Ford WSS-M2C171-F1
- Detroit Diesel 93K222
- Mack EOS-4.5 / Volvo VDS 4.5
- Cummins® Eng. Std. CES20086

Applications

- API Service : CK-4, CJ-4, CI-4 PLUS, CI-4
- Caterpillar ECF-3, ECF-2
- Volvo VDS-4, VDS-3
- Mack EO-O, EO-M
- Caterpillar ECF-3, ECF-2
- Diesel engines manufactured by OEMs not listed above, where OEM specifies API CK-4 or CJ-4 engine oil
- Detroit Diesel (4 Stroke) 93K218
- MTU Category 2.1 / Renault RLD-4, RLD-3
- International (Navistar) diesel engines
- ACEA E9, E7 / MB 228.31

Typical Properties

SAE Grade	Test Method	10W-30	15W-40
Product Code		331310	331307
API Gravity @ 60°F	ASTM D4052	32.1	31.3
Viscosity, cSt @ 40°C	ASTM D445	81.5	115.5
Viscosity, cSt @ 100°C	ASTM D445	12.0	15.5
Viscosity Index	ASTM D2270	142	141
CCS Viscosity, cP, @ Temp.	ASTM D5293	5,850 @ -25°C	4,850 @ -20°C
Pour Point, °F	ASTM D5949	-33	-28
Flash Point, COC, °F (°C)	ASTM D92	435 (224)	440 (226)
TBN	ASTM D2896	10	10
Sulfated Ash, mass %	ASTM D-874	1.0	1.0

Note: Values shown are typical values only and do not constitute a specification and may vary within modest ranges.

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