



Gulf Fleet Force Synth Commercial Vehicle Engine Oil

Product Description

Gulf Fleet Force Synth is extra high performance synthetic heavy-duty diesel engine oil developed to meet the requirements of modern European engines meeting Euro 4 emission norms. It is formulated with premium quality base fluids and advanced additive technology to offer superior engine protection and significantly extended drain intervals. This oil meets the latest ACEA E7 & ACEA E4 specifications and is suitable for severe duty applications and extended service life in most modern European vehicles. It also meets the requirements of various North American & Japanese OEMs and is available in two different viscometrics – SAE 5W-30 & SAE 10W-40.

Features & Benefits

- Exceptional anti-wear property provides enhanced protection against wear & corrosion and bore polish to ensure longer engine life
- Excellent soot handling capability minimises soot related wear and oil thickening
- Outstanding thermo-oxidative stability reduces sludge build-up & deposits and controls viscosity increase
- Advanced detergency/dispersancy results in cleaner engines and longer component life
- Excellent low temperature fluidity along with high temperature viscosity retention ensures highest degree of reliability even under severe operating conditions.
- Superior TBN retention property coupled with above features lead to significantly extended drain intervals

Applications

- Latest heavy-duty diesel vehicles not employing diesel particulate filters operating in very low ambient temperatures. SAE 5W-30 is also suitable for engines employing Exhaust Gas Recirculation
- All turbocharged and naturally aspirated diesel engines used in on-road applications, mining, construction and other off highway applications
- Extended oil drain interval applications

Specifications, Approvals & Typical Properties

Meets the following Specifications		5W-30	10W-40
ACEA E4, E7; Daimler MB 228.5; MAN M 3277; MTU Oil Category 3		X	X
Mack EO-N/ EO-M Plus; Renault VI RXD/ RLD-2; Volvo VDS-3		X	
Cat ECF-2; Deutz DQC IV-10		X	
API CF; Cummins CES 20072			X
Has the following Approvals			
API CI-4		X	
MB-Approval 228.5; MAN M3277; MTU Oil Category 3		X	
Typical Properties			
Test Parameters	ASTM Method	Typical Values	
Viscosity @ 100 °C, cSt	D 445	11.70	14.50
Viscosity Index	D 2270	164	160
Flash Point, °C	D 92	222	230
Pour Point, °C	D 97	-54	-33
TBN, mg KOH/g	D 2896	12.50	15.80
Density @ 15°C, Kg/l	D 1298	0.86	0.86
Sulphated Ash, wt%	D 874	1.32	1.85

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Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

Gulf Oil International

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