



## Gulf Super Duty LE Commercial Vehicle Engine Oil

### Product Description

**Gulf Super Duty LE** series are high performance heavy duty diesel engine oils developed for modern diesel engines running on low sulphur diesel fuel. These are blended from highly refined base stocks and selected additives to provide excellent performance under all types of operating conditions. These oils are API CH-4 licensed. SAE 15W-40 meets the requirements of all major North American heavy-duty diesel engine manufacturers and can be used in a variety of applications. Gulf Super Duty LE, SAE 30 is approved against ZF TE-ML 02H and 04B.

### Features & Benefits

- High oxidation stability reduces sludge build up & viscosity increase to facilitate long drain intervals
- Improved detergency reduces deposits and enhances engine cleanliness
- Better soot handling capacity helps control oil thickening and wear
- Effective anti wear properties protect engine parts against wear to extend engine life and reduce maintenance costs
- Good corrosion inhibition properties provide protection against rust and corrosion

### Applications

- Turbocharged and naturally aspirated diesel engines of major North American engine manufacturers
- On highway light and heavy duty trucking including high speed-high load service and short haul pick-up/delivery van
- Heavy duty diesel engines used in mining, construction, agriculture and other off road applications
- Gulf Super Duty LE, SAE 30 is suitable for use in ZF transmissions in vans, busses and trucks, offering extended drain intervals as compared to ZF TE-ML 02A oils, where such quality oils are recommended.

### Specifications, Approvals & Typical Properties

Meets the following Specifications	30	10W-30	15W-40	20W-50	
API-CH-4	X *				
Has the following Approvals					
API-CH-4		X	X	X	
ZF TE-ML 02H, 04B (ZF Approval Number: ZF001147)	X				
Typical Properties					
Test Parameters	ASTM Method	Typical Values			
Viscosity at 100 °C, cSt	D 445	11.0	11.9	14.50	18.9
Viscosity Index	D 2270	111	141	135	123
Flash Point, °C	D 92	225	220	220	230
Pour Point, °C	D 97	-33	-30	-27	-24
TBN, mg KOH/g	D 2896	9.2	9.4	9.20	7.9
Density @ 15°C, Kg/l	D 1298	0.892	0.869	0.894	0.866
Sulphated Ash, wt%	D 874	1.18	1.30	1.20	1.09

\* - based on API CH-4 additive technology.

October 2019

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.

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