



## Gulf Formula LEF Passenger Car Motor Oil

### Product Description

**Gulf Formula LEF** is the most advanced high performance fuel economy passenger car motor oil formulated from synthetic base stocks and state-of-the-art additive technology to provide outstanding protection against wear and deposits & sludge build-up. It is specially designed for use as catalyst compatible oil in high performance gasoline and diesel engines requiring low friction, low viscosity, mid SAPS oils with HTHS greater than 2.9 mPa.s in passenger cars and light vehicles fitted with Diesel Particulate Filter (DPF) and Three Way Catalyst (TWC).

### Features & Benefits

- Unique additive chemistry increases the life of DPF & TWC and provides fuel economy benefits.
- Outstanding thermo-oxidative stability decelerates oil degradation and thus facilitates extended oil change intervals
- Active cleaning agents reduce deposits & sludge and keeps engine clean and increases its life.
- Excellent antiwear technology leads to superior wear protection
- Exceptional Stay-in-Grade performance ensures reliable lubrication even at higher load and operating temperatures
- Outstanding low temperature fluidity aids quick cold start and provides wear protection at start-up

### Applications

- Latest generation high performance gasoline and diesel engines in modern passenger cars fitted with DPF and TWC requiring catalyst compatible fuel economy oils
- Passenger cars and light duty vehicles powered by gasoline and diesel engines specifically designed to be capable of using low friction low viscosity oils.
- North American and Japanese passenger cars requiring oils meeting API SL/ CF.
- These oils may be unsuitable for use in some engines (consult owner manual/ handbook).

### Specifications, Approvals & Typical Properties

Specifications		5W-30
API SL/ CF		X
Typical Properties		
Test Parameters	ASTM Method	Typical Values
Viscosity @ 100 °C, cSt	D 445	10.30
Viscosity Index	D 2270	166
Flash Point, °C	D 92	235
Pour Point, °C	D 97	-42
Density @ 15°C, Kg/l	D 1298	0.855
Sulfated Ash, % wt	D 874	0.78
Sulfur, % wt	D 129 (ICP)	0.22
Phosphorus, % wt	D 4047 (ICP)	0.0777

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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.

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