



## Gulf Formula ULE

### Catalyst Compatible Passenger Car Motor Oil

#### Product Description

**Gulf Formula ULE series** are advanced performance, synthetic, ultra low emission passenger car motor oils specially designed using most modern additive chemistry meeting mid SAPS (Sulphated Ash, Phosphorous & Sulphur) requirements. These oils have been exclusively developed to extend life and maintain efficiency of the after treatment devices used in the latest generation passenger cars powered by both gasoline and diesel engines. It provides exceptional cleaning power and wear protection and minimises deposits in engine & turbocharger leading to superior overall performance. It exceeds the requirements of latest low emission oil specifications of leading car manufacturers like Daimler, VW, BMW and Porsche.

#### Features & Benefits

- Low ash content reduces particulate build-up in diesel particulate filters
- Outstanding thermo-oxidative stability reduces oil degradation and enables extended drain intervals
- Unique additive chemistry reduces soot related thickening and wear.
- Latest mid SAPS additive technology minimises poisoning of TWC (Three Way Catalyst) and prolongs life of after treatment devices used in latest passenger cars
- Active cleaning agents reduces piston deposits and sludge build-up facilitating extended engine life
- Excellent low temperature property aids cold start and protects against wear at start-up

#### Applications

- All gasoline and diesel engines in MB and Volkswagen cars meeting Euro 4 emission norms & requiring mid SAPS oils meeting MB 229.51 and VW 502 00, 505 00 & 505 01 quality respectively.
- All BMW gasoline and diesel cars meeting Euro 4 emission norms and fitted with particulate filters across the world especially in the EU territory including Norway, Switzerland and Liechtenstein.
- SAE 5W-40 is approved against Porsche Engine Oil Category "Porsche A40" for use in all Porsche cars as of model year 1994, except Cayenne V6 for longdrain and Cayenne Diesel.
- Modern passenger cars, SUVs, light vans & trucks powered by both gasoline and diesel engines requiring API SN and ACEA C3 quality oils.

#### Specifications, Approvals & Typical Properties

Meets the following Specifications		0W-30	5W-30	5W-40
ACEA C3		X	X	X
API SN			X	X
MB 229.51, BMW Longlife-04		X		
GM dexos2™			X	
Ford WSS-M2C917-A				X
Has the following Approvals				
API SN, Volkswagen 502 00, 505 00, 505 01, BMW Longlife-04			X	X
MB-Approval 229.51		X	X	X
Porsche Engine Oil Category "Porsche A40"				X
Typical Properties				
Test Parameters	ASTM Method	Typical Values		
Viscosity @ 100 °C, cSt	D 445	11.5	12.2	13.0
Viscosity Index	D 2270	170	173	174
Flash Point, °C	D 92	228	230	220
Pour Point, °C	D 97	-39	-39	-33
TBN, mg KOH/g	D 2896	7.4	7.20	7.4
Density @ 15°C, Kg/l	D 1298	0.847	0.840	0.850
Sulphated Ash, %wt	D 874	0.76	0.78	0.78
Phosphorus, %wt	D 4047/ICP	0.076	0.084	0.077
Sulphur, %wt	D 129	0.2	0.2	0.2

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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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