



## Gulf MAX X

### Premium Passenger Car Motor Oil

#### Product Description

**Gulf MAX X** series is premium passenger car motor oil specially developed for the most modern high output gasoline and turbocharged gasoline engines in passenger cars, sport utility vehicles, vans, and light-duty trucks. These oils provide excellent protection against wear, deposits & sludge build-up and help protect engines even while operating on ethanol-containing fuels up to E85. All the viscosity grades meet the highest API quality recommended for the latest gasoline powered vehicles, API SN and viscosity grades SAE 5W-20, SAE 5W-30 & SAE 10W-30 also meet the new "Resource Conserving" designation and ILSAC GF-5. The "Resource Conserving" grades are formulated to help improve & retain fuel economy and protect vehicle emission system & turbocharger components.

#### Features & Benefits

- State of the art additive technology coupled with superior quality base oils makes these oils very robust in terms of improving sludge protection, piston cleanliness, turbo-charger protection, seal compatibility, wear protection and compatible with ethanol-containing fuels upto E85.
- Offers excellent lubrication at low temperatures (SAE grades 5W-20, 5W-30 & 10W-30) and protects engine at high temperatures.
- The Special friction modifiers used in the Resource Conserving SAE 5W-20, SAE 5W-30 & SAE 10W-30 grades help improve and retain fuel economy.
- Superior volatility characteristics reduce oil consumption and hydro-carbon pollution.
- Advanced additive chemistry helps in emission system durability.

#### Applications

- North American, European & Japanese high output gasoline engines in passenger cars, sport utility vehicles, vans, and light-duty trucks where API SN, API SM, API SL (all grades) and / or GF-5 (SAE 5W-20, 5W-30 & 10W-30) quality oils are specified.
- Passenger cars and Light Duty Vehicles running on gasoline and ethanol-containing fuels up to E85.
- SAE 10W-40 & SAE 20W-50 grades are recommended for gasoline powered car and light duty vehicles for high ambient temperature conditions and / or severe duty cycles.

#### Specifications, Approvals & Typical Properties

Has the Following Approvals		5W-20	5W-30	10W-30	10W-40	15W-40	20W-50
API SN		X	X	X	X	X	X
API SN (Resource Conserving), ILSAC GF-5		X	X	X			
Typical Properties							
Test Parameters	ASTM Method	Typical Values					
Viscosity @ 100 °C, cSt	D 445	8.8	10.4	10.4	15.6	15.7	17.6
Viscosity Index	D 2270	150	156	148	144	152	120
Flash Point, °C	D 92	218	218	236	238	210	242
Pour Point, °C	D 97	-36	-36	-33	-33	-39	-27
TBN, mg KOH/g	D 2896	7.1	7.1	8.5	8.5	8.3	8.5
Density @ 15°C, Kg/l	D 1298	0.866	0.867	0.875	0.876	0.878	0.883
CCS, cP	D 5293	6060 (-30 °C)	6410 (-30 °C)	5570 (-25 °C)	6490 (-25 °C)	6456 (-20 °C)	6700 (-15 °C)
MRV, cP	D 4684	17500 (-35 °C)	22300 (-35 °C)	22300 (-30 °C)	36100 (-30 °C)	31358 (-20 °C)	22400 (-20 °C)
HTHS, cP	D 4683	2.66	2.99	3.03	3.89	4.01	4.73

January 2014

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**

The information contained herein is believed to be correct at time of publication. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of the products. Gulf Oil International reserves the right to modify and change its products and specifications without prior notice.

[www.gulfoilttd.com](http://www.gulfoilttd.com)