



# Gulf MAX X

## Passenger Car Motor Oil

### Product Description

Gulf MAX X series is a high performance passenger car motor oil specially developed for 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 API SN quality recommended for the gasoline powered vehicles, and viscosity grades SAE 5W-20, SAE 5W-30 & SAE 10W-30 also meet the new "Resource Conserving" designation. The "Resource Conserving" grades are formulated to help improve & retain fuel economy and protect vehicle emission system & turbocharger components.

### Features & Benefits

- Superior 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 compatibility with ethanol-containing fuels up to E85
- Offers excellent lubrication at low temperatures (SAE grades 5W-20, 5W-30 & 10W-30) and protects engine at high temperatures
- Excellent 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 quality oils are specified
- Passenger cars and Light Duty Vehicles running on gasoline and ethanol-containing fuels up to E85
- SAE 10W-40 & 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	20W-50
API SN		X	X	X	X	X
API SN (Resource Conserving)		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	17.6
Viscosity Index	D 2270	150	156	148	144	120
Flash Point, °C	D 92	218	218	236	238	242
Pour Point, °C	D 97	-36	-36	-33	-33	-27
TBN, mg KOH/g	D 2896	7.1	7.1	8.5	8.5	8.5
Density @ 15°C, Kg/l	D 1298	0.866	0.867	0.875	0.876	0.883
CCS, cP	D 5293	6060 (-30 oC)	6410 (-30 oC)	5570 (-25 oC)	6490 (-25 oC)	6700 (-15 oC)
MRV, cP	D 4684	17500 (-35 oC)	22300 (-35 oC)	22300 (-30 oC)	36100 (-30 oC)	22400 (-20 oC)
HTHS @ 150 °C, cP	D 4683	2.66	2.99	3.03	3.89	4.73

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Properties mentioned are typical only and minor variations, which do not affect product performance, are expected to arise in normal manufacturing processes. Please follow equipment manufacturer's recommendations for performance level and viscosity grade. The Safety Data Sheet for this product is available from your nearest Gulf Distributor. Please consult our local representative if any further information is required.

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