



Gulf MAX X Plus

Premium Passenger Car Motor Oil

Product Description

Gulf MAX X Plus series is a premium passenger car motor oil specially developed for the 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. It is designed to provide the protection against Low Speed Pre-Ignition (LSPI) generally observed in latest turbocharged Gasoline Direct Injection (GDI) engines. Viscosity grade SAE 5W-20 & SAE 5W-30 meets the "Resource Conserving" designation indicating improved fuel economy potential and fuel economy retention.

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 up to E85
- Special formula helps in protecting the engines from Low Speed Pre-Ignition (LSPI) observed in latest turbocharged Gasoline Direct Injection (GDI) engines
- Offers excellent lubrication at low temperatures and protects engine at high temperatures
- The special friction modifiers used in these 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 Plus, 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 & SAE 20W-50 grades are recommended for gasoline powered car and light duty vehicles for high ambient temperature conditions and / or severe duty cycles
- Suitable for modern turbocharged direct injection gasoline engines where Low Speed Pre-Ignition (LSPI) protection is required

Specifications, Approvals & Typical Properties

Has the Following Approvals		5W-20	5W-30	10W-40	20W-50
API SN (Resource Conserving), SN PLUS		X	X		
API SN, SN PLUS				X	X
Typical Properties					
Test Parameters	ASTM Method	Typical Values			
Viscosity @ 100 °C, cSt	D 445	8.6	11.0	14.9	19.1
Viscosity Index	D 2270	149	158	149	128
Flash Point, °C	D 92	206	206	232	242
Pour Point, °C	D 97	-42	-42	-33	-30
TBN, mg KOH/g	D 2896	7.7	7.7	7.7	7.2
Density @ 15°C, Kg/l	D 1298	0.869	0.869	0.868	0.884
CCS, cP	D 5293	5549 (-30oC)	6027 (-30oC)	6440 (-25oC)	7853 (-15oC)
MRV, cP	D 4684	16100 (-35oC)	21700 (-35 oC)	26700 (-30 oC)	38100 (-20 oC)
HTHS @ 150 °C, cP	D 4683	2.62	3.1	3.9	5.1

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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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