



# Gulf MAX Ultra GDI

## Semi-Synthetic Passenger Car Motor Oil

### Product Description

Gulf MAX Ultra GDI series are advanced semi-synthetic passenger car motor oils developed for the modern turbocharged Gasoline Direct Injection (GDI) engines in passenger cars, sport utility vehicles, vans, and light-duty trucks. These oils are formulated to provide protection against Low Speed Pre-Ignition (LSPI) and timing chain wear issues generally observed in latest turbocharged GDI engines. It provides excellent protection against wear, deposits & sludge build-up and help to protect engines even while operating on ethanol containing fuels up to E85. These oils meet the highest API quality API SP. Further, SAE 5W-30 also meets ILSAC GF-6A requirements which helps in improving & retaining fuel economy.

### Features & Benefits

- These robust oils provide improved engine deposit, wear and turbocharger protection
- Protects turbocharged Gasoline Direct Injection (GDI) engines from LSPI and Timing chain wear
- Excellent low temperature fluidity coupled with viscosity retention at higher temperature offers reliable protection over a wide temperature range
- Special friction modifier in SAE 5W-30 helps improve & retain fuel economy
- Superior volatility characteristics reduce oil consumption and hydro-carbon pollution

### Applications

- North American, European & Japanese high output gasoline engines in passenger cars, sport utility vehicles, vans, and light-duty trucks where API SP, SN Plus, ILSAC GF-6A and / or API SN, API SM, API SL quality oils are specified (backward compatible)
- Passenger cars and Light Duty Vehicles running on gasoline and ethanol-containing fuels up to E85
- Suitable for modern turbocharged Gasoline Direct Injection (GDI) engines where Low Speed Pre-Ignition (LSPI) and Timing chain wear protection is required

### Specifications, Approvals & Typical Properties

Meets the following Specifications		5W-30	5W-40	10W-30	10W-40	15W-40	20W-50
API SP, API SN Plus				X			X
Has the Following Approvals							
API SP (Resource Conserving), ILSAC GF-6A, API SN Plus		X					
API SP, API SN Plus			X		X	X	
Typical Properties							
Test Parameters	ASTM Method	Typical Values					
Viscosity @ 100 °C, cSt	D 445	10.8	13.3	9.7	14.7	14.2	17.3
Viscosity Index	D 2270	160	166	132	155	152	128
Flash Point, °C	D 92	232	234	248	236	241	244
Pour Point, °C	D 97	-45	-42	-39	-39	-39	-24
TBN, mg KOH/g	D 2896	7.1	7.1	7.2	7.1	7.1	7.2
Density @ 15°C, Kg/l	D 1298	0.856	0.854	0.869	0.870	0.870	0.877
CCS, cP (at °C)	D 5293	5793 (-30)	6476 (-30)	6154 (-25)	6300 (-25)	5950 (-20)	6904 (-15)
MRV, cP (at °C)	D 4684	20800 (-35)	28400 (-35)	14722 (-30)	27800 (-30)	17100 (-25)	14722 (-20)
HTHS, cP	D 4683	3.2	3.7	2.97	4.1	3.90	4.42

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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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