

PREMIUM LUBRICANTS & AUTOMOTIVE SOLUTIONS

GC ULTRA SYNTHETIC SAE 10W-40 API SP

Top-Tier Fully Synthetic Motor Oil | Advanced LSPI & Timing Chain Protection for KSA

PRODUCT DESCRIPTION & APPLICATION

GC ULTRA SYNTHETIC SAE 10W-40 API SP represents the peak of engine lubrication technology, specifically formulated to combat Low-Speed Pre-Ignition (LSPI) in modern turbocharged direct-injection (TGDl) engines operating under extreme Middle Eastern thermal loads. Delivers outstanding protection against timing chain stretch, sludge, and high-temp oxidation.

PERFORMANCE & SERVICE DRAIN INTERVALS (SAUDI ARABIA SPECIFICATION)

Application Category	Recommended Service Life / Drain Interval
Turbo Gasoline Direct Injection (TGDl) Vehicles	10,000 km – 12,000 km (Optimized for KSA high-speed highway conditions)
Hybrid Powertrains & Downsized Engines	300 – 350 Operating Hours (Sustained thermal resistance under desert climate)

***Note:** Actual drain intervals may vary depending on vehicle condition, fuel sulfur levels, severe dust exposure, and OEM engine recommendations.

KEY FEATURES & DESERT ADVANTAGES

- ✓ **LSPI Mitigation:** Advanced chemistry prevents catastrophic Low-Speed Pre-Ignition events in modern downsized TGDl engines.
- ✓ **Timing Chain Protection:** Shields timing chains against wear and stretch across extended oil service intervals.
- ✓ **Extreme Thermal Stability:** Resists severe thermal breakdown during peak desert summers exceeding 50°C surface temps.
- ✓ **Sludge & Varnish Defense:** Keeps turbochargers and oil passages free of restrictive carbon deposits.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Property Parameter	Method	Unit	Typical Value
SAE Viscosity Grade	SAE J300	-	10W-40
Kinematic Viscosity @ 100°C	ASTM D445	cSt	14.70
Kinematic Viscosity @ 40°C	ASTM D445	cSt	95.80
Viscosity Index (VI)	ASTM D2270	-	160
Density @ 15°C	ASTM D4052	g/cm ³	0.860
Flash Point (COC)	ASTM D92	°C	230
Pour Point	ASTM D97	°C	-38
Total Base Number (TBN)	ASTM D2896	mg KOH/g	8.5
Apparent Viscosity (CCS) @ -30°C	ASTM D5293	mPa.s (cP)	5,500
Sulfated Ash Content	ASTM D874	% wt	0.78
Evaporation Loss (NOACK)	ASTM D5800	% wt	9.2

PERFORMANCE SPECIFICATIONS & STANDARDS

- API Service Category: SP / ILSAC GF-6A Equivalent
- SASO / GSO Standards Compliant (Saudi Standards, Metrology and Quality Organization)