

PREMIUM LUBRICANTS & AUTOMOTIVE SOLUTIONS

GC ULTRA SYNTHETIC SAE 0W-30 API SP

Fully Synthetic Turbocharger & LSPI Guard Engine Oil | Maximum High-Temp Protection

PRODUCT DESCRIPTION & APPLICATION

GC ULTRA SYNTHETIC SAE 0W-30 API SP is a top-tier fully synthetic engine oil designed for high-output turbocharged and direct-injection (TGDI) engines. Formulated to offer comprehensive protection against Low-Speed Pre-Ignition (LSPI), timing chain wear, and turbocharger coking under severe KSA operating conditions.

PERFORMANCE & SERVICE DRAIN INTERVALS (SAUDI ARABIA SPECIFICATION)

Application Category	Recommended Service Life / Drain Interval
Turbocharged Passenger Cars & Performance SUVs	10,000 km – 12,000 km (Optimized for KSA severe service)
Downsized TGDI & Modern Light Fleets	300 – 350 Operating Hours (Continuous thermal loading defense)

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

KEY FEATURES & DESERT ADVANTAGES

- ✓ **Advanced LSPI Protection:** Prevents catastrophic pre-ignition damage in direct-injected turbo engines.
- ✓ **Timing Chain Wear Defense:** Enhanced anti-wear chemistry guards critical timing chain pins and bushings.
- ✓ **High-Temperature Turbo Guard:** Controls thermal deposits and coking in extreme turbocharger bearings.
- ✓ **High Shear Stability:** Stays strictly within the SAE 30 viscosity range under severe shear stress.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Property Parameter	Method	Unit	Typical Value
SAE Viscosity Grade	SAE J300	-	0W-30
Kinematic Viscosity @ 100°C	ASTM D445	cSt	11.20
Kinematic Viscosity @ 40°C	ASTM D445	cSt	55.50
Viscosity Index (VI)	ASTM D2270	-	182
Density @ 15°C	ASTM D4052	g/cm ³	0.847
Flash Point (COC)	ASTM D92	°C	230
Pour Point	ASTM D97	°C	-45
Total Base Number (TBN)	ASTM D2896	mg KOH/g	8.3
Apparent Viscosity (CCS) @ -35°C	ASTM D5293	mPa.s (cP)	4,800
Sulfated Ash Content	ASTM D874	% wt	0.77
Evaporation Loss (NOACK)	ASTM D5800	% wt	9.0

PERFORMANCE SPECIFICATIONS & STANDARDS

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