

PREMIUM LUBRICANTS & AUTOMOTIVE SOLUTIONS

GC SYNTHETIC SHIELD SAE 10W-40 API SN

Advanced Synthetic Blend Engine Oil | Engineered for Turbocharged Engines in Desert Climates

PRODUCT DESCRIPTION & APPLICATION

GC SYNTHETIC SHIELD SAE 10W-40 API SN is an advanced synthetic blend motor oil formulated to exceed demanding operational standards under extreme ambient heat in Saudi Arabia. Engineered with high-grade synthetic base stocks and an advanced additive suite, it delivers superior high-temperature deposit control, piston cleanliness, and turbocharger protection.

PERFORMANCE & SERVICE DRAIN INTERVALS (SAUDI ARABIA SPECIFICATION)

Application Category	Recommended Service Life / Drain Interval
Modern Passenger Cars, SUVs & Light Trucks	7,000 km – 10,000 km (Optimized for severe Saudi summer operations)
High-Demand Fleet & Commercial Vehicles	250 – 300 Operating Hours (Under high thermal loads and dust exposure)

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

KEY FEATURES & DESERT ADVANTAGES

- ✓ **Piston Deposit Control:** Superior high-temperature deposit management maintains ring-land cleanliness and compression under extreme heat.
- ✓ **Turbocharger Defense:** Resists extreme thermal stress and oil oxidation in high-output turbocharged engines.
- ✓ **Evaporative Loss Resistance:** Low NOACK volatility reduces oil consumption during long distance highway driving across the Kingdom.
- ✓ **Engine Seal Integrity:** Preserves seal flexibility to reduce oil loss in severe driving environments.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Property Parameter	Method	Unit	Typical Value
SAE Viscosity Grade	SAE J300	-	10W-40
Kinematic Viscosity @ 100°C	ASTM D445	cSt	14.60
Kinematic Viscosity @ 40°C	ASTM D445	cSt	97.00
Viscosity Index (VI)	ASTM D2270	-	156
Density @ 15°C	ASTM D4052	g/cm ³	0.864
Flash Point (COC)	ASTM D92	°C	228
Pour Point	ASTM D97	°C	-36
Total Base Number (TBN)	ASTM D2896	mg KOH/g	8.2
Apparent Viscosity (CCS) @ -30°C	ASTM D5293	mPa.s (cP)	5,800
Sulfated Ash Content	ASTM D874	% wt	0.80
Evaporation Loss (NOACK)	ASTM D5800	% wt	10.1

PERFORMANCE SPECIFICATIONS & STANDARDS

- API Service Category: SN / CF
- SASO / GSO Standards Compliant (Saudi Standards, Metrology and Quality Organization)