

PREMIUM LUBRICANTS & AUTOMOTIVE SOLUTIONS

GC ULTRA PERFORMANCE SAE 20W-50 API SL

High-Viscosity Multi-Grade Gasoline Engine Oil | Engineered for Extreme Desert Climates

PRODUCT DESCRIPTION & APPLICATION

GC ULTRA PERFORMANCE SAE 20W-50 API SL is a premium, high-shear multi-grade motor oil formulated with highly refined Group II base stocks and an advanced thermo-durable additive system. Specially developed to meet the severe operational demands of ambient temperatures across the Kingdom of Saudi Arabia, it provides exceptional thermal stability, resistance to oxidation, and continuous wear protection under high-speed, heavy-load highway driving and extended city idling.

PERFORMANCE & SERVICE DRAIN INTERVALS (SAUDI ARABIA SPECIFICATION)

Application Category	Recommended Service Life / Drain Interval
On-Road Passenger Cars & Light Commercial Vehicles	5,000 km – 7,000 km (Optimized for Saudi summer temperatures exceeding 45°C)
Stationary Gasoline Engines & Field Water Pumps	Operating Hours 250 – 200 (Depending on dust filtration and ambient heat loads)

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

KEY FEATURES & DESERT ADVANTAGES

- ✓ **High-Temperature Viscosity Retention:** Maintains robust film strength at elevated engine operating temperatures, preventing metal-to-metal contact during peak KSA summers.
- ✓ **Thermal & Oxidation Control:** Resists oil breakdown, varnish formation, and thermal thickening under severe stop-and-go driving.
- ✓ **Enhanced Engine Cleanliness:** Active detergent and dispersant chemistry keeps pistons and crankcases free from harmful carbon deposits and sludge.
- ✓ **Superior Seal Compatibility:** Conditions engine seals and gaskets to prevent leaks in high-mileage and older vehicle fleets.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Property Parameter	Method	Unit	Typical Value
SAE Viscosity Grade	SAE J300	-	20W-50
Kinematic Viscosity @ 100°C	ASTM D445	cSt	18.50
Kinematic Viscosity @ 40°C	ASTM D445	cSt	168.2
Viscosity Index (VI)	ASTM D2270	-	124
Density @ 15°C	ASTM D4052	g/cm ³	0.888
Flash Point (COC)	ASTM D92	°C	238
Pour Point	ASTM D97	°C	-24
Total Base Number (TBN)	ASTM D2896	mg KOH/g	7.8
Apparent Viscosity (CCS) @ -30°C	ASTM D5293	mPa.s (cP)	6,200
Sulfated Ash Content	ASTM D874	% wt	0.85
Evaporation Loss (NOACK)	ASTM D5800	% wt	10.5

PERFORMANCE SPECIFICATIONS & STANDARDS

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