# PRODUCT DATA SHEET



# Life Star Engine Oil

#### DISCRIPTION

**Life Star** is high performance multi-grade passenger vehicle engine oils that exceed the latest industry standards required in today's gasoline and diesel automobile engines.

**Life Star** formulated from high quality base oils blended with high performance additives to provide protection and high performance for your engine, flow through the engine faster offering super protection during engine start-up when most engine wear occurs. It remains fluid at low temperatures and provides outstanding protection under the most extreme cold weather conditions. Despite its greater fluidity at start-up and low temperatures, **Life Star** provides the protection as the engine operating temperatures increase.

**Life Star** keep engines running cleanly, smoothly and protects through a combination of high quality conventional mineral oils and a premium performance additive system, maintain engine cleanliness preventing the build-up of harmful deposits, sludge and varnish; and fight wear and corrosion under a variety of driving conditions.

### APPLICATION

**Life Star** is recommended for use in all types of modern passenger cars and light commercial vehicles powered by petrol and diesel engines. It is particularly recommended for high performance engines, including those which are multi-valves and/or turbocharged. It is not recommended for two-stroke or aviation engines, where API SJ performance is needed, also meet ILSAC GF-2







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### **BENEFITS**

- Good thermal and oxidation stability reduce engine deposits, build-up of harmful sludge and deposit produced in the hot zones within an engines.
- Friction fighting anti-wear system reduce wear which can lead to lower maintenance costs.
- Cleaning agent's clean running engine leading to longer engine life and more reliable operation.
- High Viscosity Index and shear stability improve lubrication at normal and high temperatures, provide excellent high and low temperature protection in severe driving conditions

### **Performance**

API SJ

ILSAC GF-2

Life Star available in 10W30, 10W40, 15W40, 10W50 and 20W50 SAE grades

## **Specifications**

Test Parameter	Units	Test Limits				<b>Test Method</b>
SAE Grade	-	10W30	10W40	15W40	20W50	-
Appearance	-	C&B	C&B	C&B	C&B	Visual
Density @ 15°C	g/cm <sup>3</sup>	0.880	0.887	0.887	0.891	ASTM D-4052
Viscosity @ 40°C	cSt	70	100	108	163	ASTM D-445
Viscosity @ 100°C	cSt	9.3-12.4	12.5-16.2	12.5-16.2	16.3-21.8	ASTM D-445
Viscosity Index, min.	-	130	128	125	120	ASTM D- 2270
CCS, max	mPa-S	7000@-25	7000@-25	7000@-20	9300@-15	ASTM D-5293
Flash Point min.	°C	230	240	246	256	ASTM D-92
Pour Point, max.	°C	- 30	-30	-27	- 18	ASTM D-97
TBN, min	mg/g	6.5	6.5	6.5	6.5	ASTM D-2896
Code	-	106/1	106/2	106/3	106/4	-





