



HYBRID 0W-16



Fuel Economy Gasoline engine lubricant

100% Synthetic

TYPE OF USE

100% Synthetic "Fuel economy" engine oil specially designed for Hybrid Electric Vehicles (H.E.V) and Plug-in Hybrid Electric Vehicles (P.H.E.V) fitted with recent gasoline engines, turbocharged or naturally aspirated, direct or indirect injection, designed to use SAE 0W-16 oil with low friction and very low HTHS (High Temperature High Shear) viscosity (≥ 2.3 mPa.s).

Suitable also for battery electric vehicles (B.E.V) fitted with thermal gasoline engine used as Range Extender.

Suitable for modern gasoline engines requiring a viscosity grade SAE 0W-16 lubricant or a "Fuel Economy" lubricant in viscosity grade 16: Standards API SN.

Compatible with catalytic converters.

This type of oil may be unsuitable for use in some engines. Refer to the owner manual if in doubt.

PERFORMANCE

STANDARDS

API SERVICES **SN**

RECOMMENDATIONS

HONDA Hybrid gasoline engines

TOYOTA Hybrid gasoline engines

...

The API SN standard is fully backward compatible over API SM requirements and all former API standards.

API SN lubricants provide outstanding oxidation resistance, better protection against deposits, better engine cleanliness, better anti-wear protection and enhanced performance at cold temperature during the whole oil life duration.

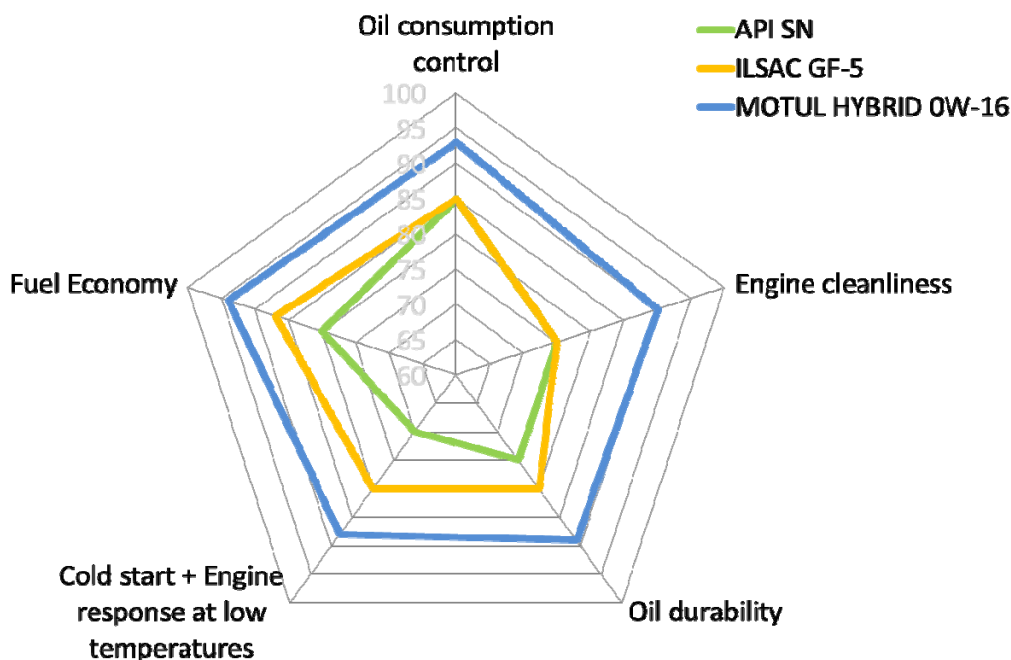
Viscosity grade SAE 0W-16 minimizes seriously lubricant hydrodynamic friction, allows significant fuel economy benefits especially when the oil is cold.

This very low viscosity grade also improves oil flow at start up, delivers faster oil pressure build up, faster rev raisings and allows reaching operating temperature faster.

MOTUL HYBRID 0W-16 is specially formulated to meet the specific needs of hybrid electric vehicles, such as HEV, PHEV and BEV with Range Extender, where multiples unexpected stops and starts of the Gasoline engine are involved during the different operating phases of the hybrid vehicle. This particular mode of operation of the internal combustion engine on a hybrid vehicle generates very specific constraints for the lubricant, and in this, MOTUL HYBRID 0W-16 fully meets all these requirements.

Environment friendly, this type of oil allows fuel consumption reduction and therefore minimizes greenhouse gases (CO₂) emissions.

MOTUL HYBRID 0W16 demonstrates all these qualities on all key criteria and requirements when compared to API SN and ILSAC GF-5:



RECOMMENDATION

Drain interval: according to manufacturers' recommendations and tune to your own use.

MOTUL HYBRID 0W-16 can be mixed with synthetic or mineral oils.

Before use always refer to the owner manual of the vehicle.

PROPERTIES

Viscosity grade	SAE J 300	0W-16
Density at 20°C (68°F)	ASTM D1298	0.843
Viscosity at 40°C (104°F)	ASTM D445	36.3 mm ² /s
Viscosity at 100°C (212°F)	ASTM D445	7.1 mm ² /s
HTHS viscosity at 150°C (302°F)	ASTM D4741	2.3 mPa.s
Viscosity index	ASTM D2270	160
Pour point	ASTM D97	-42°C / -44°F
Flash point	ASTM D92	234°C / 453°F
Sulfated ash	ASTM D874	0.89% weight
TBN	ASTM D2896	8.5 mg KOH/g