



PROTECTION | PERFORMANCE  
*you demand. | you deserve.™*

# AMSOIL 100% Synthetic Hybrid Motor Oil

## Advanced Protection for Hybrid Vehicles

The internal combustion engine (ICE) in a hybrid vehicle endures a unique set of challenges. Infrequent engine usage and increased start/stop activity place demands on lubricants not common in traditional ICE vehicles. AMSOIL 100% Synthetic Hybrid Motor Oil is a premium upgrade over vehicle-manufacturer-branded motor oils, delivering purpose-built protection for the hybrid-drive cycle to maximize hybrid engine life, efficiency and performance.

### COMBATS CORROSION AND WATER CONTAMINATION

Hybrid engines operate intermittently, making them especially vulnerable to corrosion. Infrequent use and reduced load on the ICE leads to lower engine temperatures that are insufficient to completely remove condensation inside the engine by evaporation, which can lead to rust, wear and decreased efficiency. AMSOIL 100% Synthetic Hybrid Motor Oil is formulated with a boosted dose of inhibitors to help prevent condensation-related corrosion and maintain optimal engine performance. It also contains an elevated level of dispersants to manage water that enters through condensation.

### PROTECTS AGAINST FUEL DILUTION

Frequent start/stop activity can lead to cooler cylinders and incomplete combustion, increasing the likelihood of unburnt fuel leaking down the cylinder walls into the crankcase and contaminating the motor oil — reducing its ability to provide proper lubrication. AMSOIL 100% Synthetic Hybrid Motor Oil is engineered with robust viscosity to combat the negative effects of fuel dilution.

### CONTROLS VISCOSITY

Because they are used intermittently, hybrid engines endure more frequent starts and stops, interrupting the flow of oil. Therefore, oil needs to flow quickly when the engine engages to reach critical components. The issue is more severe when the engine engages to assist the electric motor during high-load and must instantly reach high rpm. AMSOIL 100% Synthetic Hybrid Motor Oil is formulated to manage those issues with optimal low-temperature viscosity control to ensure rapid protection of components at startup.

### SUPERIOR COLD-TEMPERATURE PROTECTION

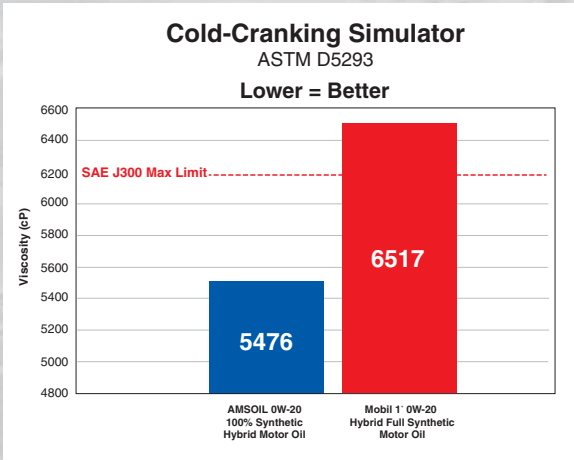
Infrequent engine usage and increased start/stop activity can accelerate engine wear in hybrid vehicles. Independent, third-party testing demonstrated that AMSOIL 100% Synthetic Hybrid Motor Oil provides up to 16% better low-temperature viscosity than Mobil 1,\* delivering better protection at startup.<sup>A</sup>

<sup>A</sup>Based on independent, third-party testing of AMSOIL 0W-20 100% Synthetic Hybrid Motor Oil and Mobil 1 0W-20 Hybrid Full Synthetic Motor Oil (batch code 10222M14A RN6613 326900 D340BUDE015 purchased April 17, 2023) in the industry-standard ASTM D5293 Cold Crank Simulator test as required by SAE J300.

## DATA SHEET



- **Purpose built** to combat issues common to HEV and PHEV vehicles.
- **100% synthetic** formulation helps maximize fuel economy.
- **Corrosion inhibitors** fight corrosion caused by condensation.
- **Flows quickly** to reach critical components when engine engages.
- **Up to 16% better** low-temperature viscosity than Mobil 1,\* delivering better protection at startup.<sup>A</sup>
- **Helps** keep combustion chamber and exhaust system clean.
- **API licensed** (0W-16 and 0W-20).
- **JASO licensed** (0W-8).



TYPICAL TECHNICAL PROPERTIES
AMSOIL 100% Synthetic Hybrid Motor Oil

|                                   | HE08       | HE016      | HE020      |
|-----------------------------------|------------|------------|------------|
| Viscosity 100°C, cSt (ASTM D 445) | 5.7        | 7.4        | 8.5        |
| Viscosity 40°C, cSt (ASTM D 445)  | 28.4       | 37.9       | 44.3       |
| Viscosity Index (ASTM D 2270)     | 147        | 166        | 172        |
| Viscosity CCS, cP (ASTM D 5293)   | 4716 (-35) | 4759 (-35) | 5295 (-35) |
| Flash Point, °C (COC) (ASTM D 92) | 216        | 218        | 218        |
| Fire Point, °C (COC) (ASTM D 92)  | 234        | 234        | 234        |
| Pour Point, °C (COC) (ASTM D 97)  | -39        | -45        | -45        |
| NOACK (%WT loss) (ASTM D 5800)    | 11.5       | 10.8       | 10.6       |
| TBN                               | 9.6        | 9.0        | 9.0        |
| HTHS (cP) (ASTM D 892)            | 1.9        | 2.44       | 2.75       |

APPLICATIONS

Use AMSOIL 100% Synthetic Hybrid Motor Oil in applications that require any of the following specifications:

0W-8 (HE08): JASO GLV-1

0W-16 (HE016): API SP (Resource Conserving), SN Plus, SM...; ILSAC GF-6B.

0W-20 (HE020): API SQ (Resource Conserving), SP, SN Plus...; ILSAC GF-7A, GF-6A, GF-5...; GM dexos1\* Gen 3 (supersedes dexos1 Gen 2 and 6094M); Chrysler MS-6395; Ford WSS-M2C962-A1; WSS-M2C972-A1.

COMPATIBILITY

AMSOIL 100% Synthetic Hybrid Motor Oil is compatible with other conventional and synthetic motor oils. Mixing other oils with AMSOIL motor oils, however, will shorten the oil's life expectancy and reduce its performance benefits. AMSOIL does not support extended drain intervals where oils have been mixed. Aftermarket oil additives are not recommended for use with AMSOIL synthetic motor oils.

TECHNICAL SERVICES

For immediate answers to your technical questions call 715-399-8324 (TECH) between 8 a.m. and 5 p.m. Central or email tech@AMSOIL.com.

SERVICE LIFE — 0W-16 & 0W-20

Normal Service – Up to 15,000 miles or one year, whichever comes first, in personal vehicles not operating under severe service.

Severe Service – Follow the severe-service drain interval prescribed by your vehicle manufacturer in your owner's manual.

SERVICE LIFE — 0W-8

Follow original equipment manufacturer's recommended service interval.

AMSOIL PRODUCT WARRANTY

Using AMSOIL synthetic lubricants or practicing extended drain intervals does not void your new vehicle or equipment manufacturer's warranty. All AMSOIL lubricants and filters are covered by the AMSOIL Limited Warranty. For complete information visit AMSOIL.com/warranty.aspx.

HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available at AMSOIL.com or upon request at 715-392-7101.

Keep Out of Reach of Children. Don't pollute. Return used oil to collection centers.

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