



# Auto Gold<sup>®</sup> HMO

## High Mileage Gasoline Engine Oil

### General Description

Auto Gold<sup>®</sup> HMO gasoline engine oil is a high quality, all mineral, gasoline engine oil. It is designed to protect and lubricate gasoline engines in older higher mileage vehicles (75,000 miles or above).

Auto Gold HMO is formulated with a mixture of high quality, high viscosity index base oils with an additive system that has the proper balance of anti-wear, friction modifiers, detergents, dispersants, oxidation inhibitors, rust, corrosion and foam inhibitors. Additionally, the special formulation contains seal conditioners, which recondition and revitalize engine seals.

Auto Gold HMO SAE 10W-30 meets the API SN Plus/GF-5/Resource Conserving category. It meets new car warranty requirements and is backward compatible to the older API and ILSAC requirements.

### Features and Benefits

- **Resource Conserving:** Meets API SN Plus /ILSAC GF-5 with improved fuel economy, catalysts protection and emission system durability.
  - **Oxidation Prevention and Control:** Provides outstanding oxidation control, prevents volatility, thermal and viscosity breakdown caused by degradation; thus, reducing oil consumption.
  - **Anti-wear Protection:** Contains zinc dialkyl dithio phosphate (ZDDP) an additive component used to reduce wear, protect highly-loaded engine parts and extends engine life.
  - **Oil Pumpability:** Formulated to improve lubrication to critical engine parts which reduces wear during cold temperature startups.
  - **Flex-Fuel Vehicle Compatible:** Meets lubricant requirements when using ethanol containing gasoline up to E-85.
  - **Warranties:** Meets ILSAC GF-5 requirements for new cars under warranty including most American, Asian, and European cars.
- Always follow your equipment's manufacturer's recommendation for viscosity grade and service classification.**

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### Typical Applications

Auto Gold<sup>®</sup> HMO engine oil is formulated to meet a variety of gasoline engine specifications and manufacturer's requirements. Meets the performance requirements of the following:

- API Service Categories: SN Plus, SN, SM, SL, SJ
- ILSAC GF-5,4,3
- API Resource and Energy Conserving
- Car manufacturers' warranty requirements for service fill

### Typical Customers

- Owners/operators of older (75,000 miles or above) gasoline engines in passenger cars, light trucks, agricultural, construction, commercial and stationary equipment.

### Typical Properties

<b>SAE Grade</b>	<b>10W-30</b>
High Mileage Oil	Yes
API Service	SN Plus
ILSAC	GF-5
Resource Conserving/Energy Conserving	Yes
API Gravity / lbs.gal	30.8 / 7.26
Flash Point, °C (°F)	220 (429)
Pour Point, °C (°F)	-38 (-36)
Viscosity @40 °C, cSt	68
Viscosity @100°C, cSt	11.2
Viscosity Index	158
CCS Viscosity, cP @ °C	6,000@ -25
Viscosity @-30°C, cP (MRV-TP1)(SAE 10W)	22,000
High Temp/High Shear (HTHS @150°C cP)	3.0

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

### Health & Safety

A complete safety data sheet is available by calling 1-651-355-8438 or visit [cenex.com/sds-library](http://cenex.com/sds-library).