

Auto Gold[®] HMO



High Mileage Gasoline Engine Oil

General Description

Auto Gold[®] HMO gasoline engine oil is a high quality, all mineral, gasoline engine oil. It was designed primarily for gasoline engines in older higher mileage (75,000 miles) vehicles.

Auto Gold HMO contains a seal conditioner to recondition and revitalize engine seals

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

Auto Gold HMO 10W-40 meets the API SN category. It is designed to help reduce oil consumption and exhaust smoke in older cars

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.

Features and Benefits

- **Resource Conserving:** Meets API SN/ILSAC GF-5 with improved fuel economy, catalysts protection and emission system durability. (10W-30 only)
 - **Oxidation Control:** Provides outstanding control of oxidation, volatility, thermal and viscosity breakdown. This reduces oil consumption, sludge, and varnish for a cleaner engine.
 - **Anti-wear Protection:** Contains the maximum level of zinc dialkyl dithio phosphate (ZDDP) to reduce wear, protecting highly loaded engine parts and extending engine life.
 - **Oil Pumpability:** A formulation that pumps oil faster than required to various engine parts during cold start-ups reducing long term wear.
 - **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. (10W-30 only)
- Follow the manufactures recommendation for viscosity grade, service classification and oil drain interval.

Auto Gold® HMO

High Mileage Gasoline Engine Oil

Typical Application

Older (75,000 miles) passenger cars, light trucks, sports utility vehicles.

Typical Customer

Owners/operators of older gasoline engines in passenger cars, light trucks, agricultural, construction, commercial and stationary equipment.

Industry Performance Standards

Auto Gold® HMO engine oil is formulated to meet a variety of gasoline engine specifications and manufacturers' requirements. Meets the performance requirements of the following:

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

*(10W-30 only)

Typical Properties

SAE Grade	10W-30	10W-40
High Mileage Oil	Yes	Yes
API Service	SN	SN
ILSAC	GF-5	No
Resource Conserving/Energy Conserving	Yes	No
API Gravity / lbs.gal	30.8 / 7.26	30.7 / 7.26
Flash Point, °C (°F)	220 (429)	220 (429)
Pour Point, °C (°F)	-38 (-36)	-35 (-31)
Viscosity @40 °C, cSt	68	95
Viscosity @100°C, cSt	11.2	14.5
Viscosity Index	158	158
CCS Viscosity, cP @ °C	6,000@ -25	6300@ -25
Viscosity @-30°C, cP (MRV-TP1)(SAE 10W)	22,000	31,000
High Temp/High Shear (HTHS @150°C cP)	3.0	3.8

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 www.cenex.com.