



Neo Synthetic Motor Oil

SAE 10W40

100% Synthetic

API Service SJ / SH; ILSAC GF - 1 / GF - 2 ACMA CCMC G - 4 G
- 5 PD - 2

Product Description

NEO 10W-40 is a multi-viscosity engine oil for use in autos and light trucks. It meets and exceeds API Service Classification SJ / SH and ILSAC GF - / GF - 2 and ACMA CCMC G -4 G -5 PD -2. Recommended for naturally aspirated, turbocharged, and supercharged engines. The NEO 10W-40 base stock is 100% synthetic. To that base is added NEO's balanced blend of additives that are necessary for today's autos.

Technical Description

The single molecular structure of NEO's synthetic provides better and more consistent lubricating properties than petroleum. This reduces friction, which reduces engine wear. Reduced friction also means fuel mileage can be expected to increase.

NEO synthetic 10W-40 is designed to withstand higher temperature, and it will flow at much lower temperature than petroleum lubricants. In addition, it has an inherently higher film strength than petroleum oils, there by providing added protection to the bearing surfaces of the engine.

Energy Conservation:

The American Petroleum Institute (API) has established criteria for fuel conservation. Basically, if the oil helps increase gas mileage, it meets this criteria. This product meets the requirements for the API Energy Conserving Designation.

Clean Environment

The engine oil you use can help reduce hydrocarbons in the environment and can reduce your operating costs as well: By getting more miles per gallon through reduced friction in the engine, by reducing the burned oil in

the atmosphere, and by reducing the amount of used oil for disposal. NEO has documented proof that their engine oils will accomplish these goals, and you can feel confident that you are doing your best to improve our quality of life. Further, as you use less gas and oil, it is costing you less to operate, and you can expect the NEO lubricants to reduce your maintenance cost by providing the best lubrication you can get.

Extended Drain interval:

Petroleum oils cannot be expected to last for the extended periods stated in some owner's manuals. Not only does the petroleum stock deteriorate over extended periods, but the additives - particularly the detergent - are consumed.

NEO 10W-40 is designed to last up to 25,000 miles or one year, whichever comes first. The additive package is formulated specifically for the diester synthetic. In addition, the diester base itself acts as a natural detergent and thereby aids the additive package and extends the life of the base stock.

Changing to NEO Engine Oil

New Engine: Break in the engine with petroleum oil for about 6,000 miles. Drain the oil; replace the filter with a synthetic-rated filter and fill with NEO.

New Vehicle Warranty: NEO 10W-40 meets manufacturers warranty requirements for the stated API service rating. If the owner prefers, the NEO can be changed at the manufacturer's recommended intervals.

Older Engine: Drain the oil; replace the filter with a synthetic-rated filter and fill with NEO. Expect oil contamination at first while the oil passages in the engine are being cleansed. If the old oil was overly dirty, change the new filter after 2,000 miles, then again at 5,000 miles. Resist temptation to use a cheap filter for this cleansing process; the finer filtering of the synthetic- rated filter is needed for a thorough cleansing.

Service Life: Replace the NEO 10W-40 after 25,000 miles or one year, whichever comes first. Change the oil filter three times in that period, and in dusty climates, both should be changed more often. Changing the air filter regularly is equally important.

Mixing: NEO 10W-40 synthetic will mix with petroleum oils; it is not necessary to flush the engine when NEO is first used. However, mixing a large amount of petroleum with NEO will reduce the qualities of the NEO and will shorten the service life. This is not recommended. Using aftermarket oil additives is not necessary and may produce unpredictable results. Use of aftermarket additives voids the NEO warranty.

Specifications *

NEO SAE 10W-40 Engine Oil meets and exceeds requirements API service classifications SJ / SH , ILSAC GF -1 / GF - 2 and European Standard ACEA.

Caution: Use the viscosity grade recommended by the engine manufacturer for the expected environment.

Specification	Value	Test Method	
Viscosity Index	185	ASTM D-2270	
Viscosity:	Cold Cranking @ - 20°C	2900 cP	ASTM D-2602
	Kinematic @ 100°C	13.9 cSt	ASTM D-445
Viscosity Increase (375% allowed)	6%	Seq. III-C	
Total Base Number (TBN - exceeds engine requirements by about 3 times)	8.03	ASTM D-2896	
Sulfated Ash	0.64	ASTM D-874	
Flash Point	470°F	ASTM D-92	
Pour Point	-49°F	ASTM D-97	

Film Strength - About 6 times that of petroleum.

Density@ 60°F - 7.72 pounds/gallon