

Technical information



Molygen New Generation

As a specialist for additives and motor oils, we have always focused our products on particularly high wear protection and engine longevity. Molygen New Generation oils are a special product in which these properties are particularly pronounced.

The first formulations were developed over 10 years ago, initially in the SAE ranges xW-40/50 and some years ago also in the viscosities 0W-20, 5W-20, 5W-30 and 10W-30.

In terms of quality, the ranges differ to the extent that the 1st generation was specially tailored to the European vehicle market by the type of formulation (ACEA A3/B4 plus European OEM performance). In the course of further development, the Molygen oils were based on API and ILSAC technology and a variant was also optimized especially for vehicles with DPF. Molygen New Generation oils have thus been adapted to the technical requirements of vehicle fleets worldwide.

Over the years, the formulations have been continuously optimized to offer quality and performance at the highest level. The 1st generation was still based purely on molybdenum, while the 2nd generation was an active ingredient combination of molybdenum and tungsten.



Innovation

The formulations of the current 3rd generation are based on organic friction modifiers with molybdenum technology, which is a further development of the previously used molybdenum- and tungsten-based technology.

This is a new, modern, improved formulation with very effective molybdenum compounds that achieve an increased fuel economy effect and better properties for vehicles with automatic start/stop.

Due to the current formulation possibilities in the low-viscosity SAE classes, the highest possible quality level in this area is now achieved with API SN plus and ILSAC GF5. This also results in an extended field of application for additional vehicles.

The molybdenum content of these new formulations is approx. 180 ppm, which is considerably higher than that of conventional formulations available on the market.

Despite the conversion to the organic friction modifier with molybdenum technology, the newly formulated lubricant still has the significant color that gives the Molygen oil a high recognition value. In contrast to the well-known gray-black molybdenum disulfide, the organic friction modifier with molybdenum technology has a brownish-transparent color, which makes it possible to retain the characteristic greenish color of the oil.

In the SRV test, the new formulations again show excellent results.



Hardly to be distinguished by appearance: the Molygen motor oil with the previous formulation (left in the picture) and the sample with the new, improved formulation (right).

LIQUI MOLY GmbH
Jerg-Wieland-Straße 4
89081 Ulm
GERMANY

Phone: +49 731 1420-0
Fax: +49 731 1420-75
E-Mail: info@liqui-moly.com
www.liqui-moly.com

Technical support:
Phone: +49 731 1420-871
E-Mail: support@liqui-moly.com

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