

Mabanol Helium Hyd Eco Syn 46^{leaf}

Rapidly biodegradable, zinc and ash-free HVLP high performance hydraulic oil



HVLP
DIN 51524-3

HEPR
ISO 15380



Key Features:

- ✓ Meets and exceeds the requirements of the Industrial standard DIN 51524-3 for HVLP hydraulic oils, ISO 15380 for biodegradable hydraulic oils and the EU Ecolabel
- ✓ Excellent oxidation and aging stability
- ✓ Excellent performance in the presence of water – no water separator necessary
- ✓ Compatible with products based on mineral oil and ester
- ✓ Compatible with common seals – no swelling of seals and hoses
- ✓ Zinc and ash-free
- ✓ Distinctive energy saving potential
- ✓ One product for a variety of applications allows product line optimization

Mabanol Helium Hyd Eco Syn 46 protects your system and the environment - sustainable and efficient.

Mabanol Helium Hyd Eco Syn 46 is a fully synthetic high-performance hydraulic oil for mobile and stationary hydraulic systems in forestry, construction and agriculture, in hydropower and sewage treatment plants as well as in other environmentally sensitive areas where biodegradable hydraulic oils have to be used.

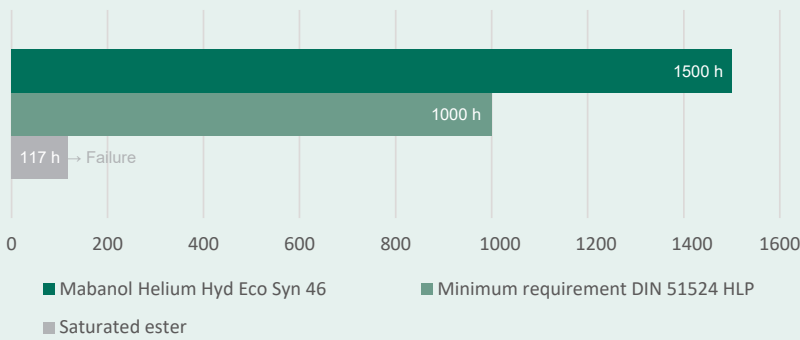
Mabanol Helium Hyd Eco Syn 46 provides excellent oxidation and aging stability and ensures precise hydraulic power transmission with effective wear protection far beyond the requirements of standard industry tests.

In particular the water resistance of **Mabanol Helium Hyd Eco Syn 46** allows the safe application in humid environments and extends oil change intervals as well as the system lifespan.

EU Ecolabel: NL/027/024

TOST Test

TOST Test ASTM D 943 (with water) for HLP-Hydraulic oils

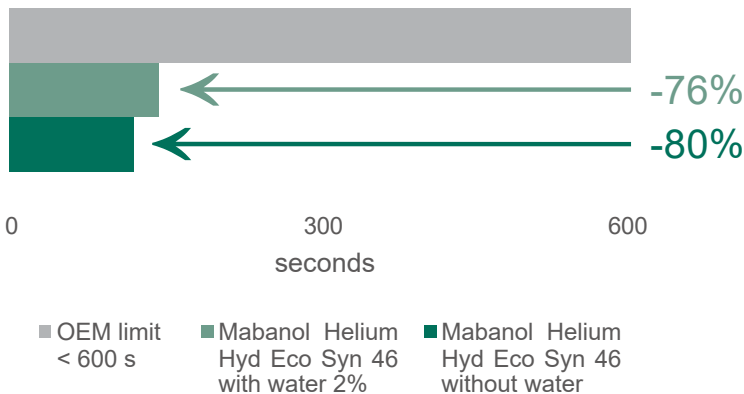


> 100x

higher aging stability
compared to ester-based
products

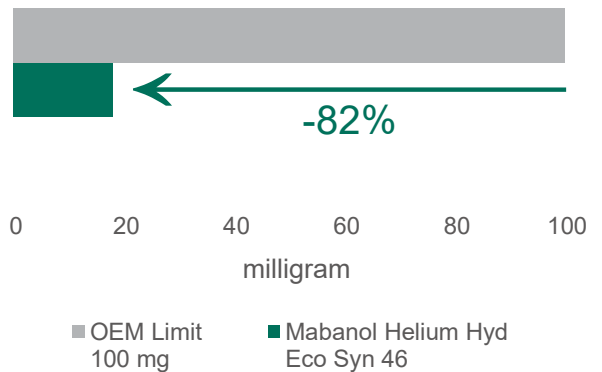
Filtration

PARKER DENISON TP 02100 TEST
Filtration in seconds



Sludge Formation

CINCINNATI P70 TEST
168h/135°C - sludge formation in mg



157

viscosity
index
ASTM D 7042

5 min

air release
properties
ASTM D 3427

> 60%

bio-
degradable
OECD 301 B

- 40°C

pour point
ASTM D 97 /
DIN EN ISO 3016