

# HYDRAULIC OIL PLUS

SYNTHETIC BIODEGRADABLE HYDRAULIC OIL

## Description

**Hydraulic oil PLUS** is a high performance synthetic hydraulic oil from mixture of saturated and unsaturated esters. **Hydraulic oils PLUS** has a great lubricity characteristic, excellent thermo-oxidation stability and perfect cold exposure properties. It also provides a great temperature range performance. Enables a long oil change interval (extended lifetime filling interval). Produced at a range of viscosity classes ISO VG 32/46/68.

## Industry Performance Standards

- HEES: ISO 15380
- **EU Ecolabel** licence no. CZ/027/001
- Environmentally Acceptable Lubricants (EALs) **US EPA Vessel General Permit 2013** (VGP)

## Areas of Application

Hydraulic oil PLUS is designed for hydrostatic and hydrodynamic mechanical parts of machines and machinery. The ready biodegradability and non-toxic nature of these products make this hydraulic oil an excellent choice where leakage or spillage could enter environmentally sensitive areas (forestry works, hydroelectric stations, earth-moving industry, agriculture industry etc.)

Before changing over to Hydraulic Oil PLUS please enquire for our filling instructions.

**Note:** Cleaning function of Hydraulic Oil PLUS may loosen any deposits in the hydraulic system.

## Characteristic features

- Great lubrication performances
- Perfect anti-wear properties
- Non-toxic
- Great cold-exposure properties
- Excellent thermo-oxidation stability
- Easily biodegradable
- Good compatibility with sealing materials, paints and hose
- Great protection against rust and corrosion
- Excellent wide temperature range performances
- With non-foaming additives



CZ/027/001

### Typical characteristics

PARAMETER	UNIT	TEST METHOD	HO PLUS 32	HO PLUS 46	HO PLUS 68
Density at 15 °C	kg/m <sup>3</sup>	ISO 2592	885 – 910	890 - 915	895 - 920
Kinematic Viscosity at 40°C (ISO VG)	mm <sup>2</sup> /s	ISO 3104	32	46	68
Kinematic Viscosity at 100°C (ISO VG)	mm <sup>2</sup> /s	ISO 3104	6,9	9,1	12,1
Pour point	°C	ISO 3016	< -40	< -40	< -40
Flash point, COC	°C	ISO 2592	> 250	> 280	> 280
Viscosity index	-	ISO 2909	> 175	> 175	> 175
Oxidation stability	Min	RSSOT	> 650	> 700	> 700
Biodegradability (within 28 days)	%	OECD 301D	> 60	> 60	> 60

### Note

All information is provided to the best of our knowledge and represents general, non-binding guide values. Technical data are average values and are subject to the usual production fluctuations. In case of doubt, please contact our Technical Service. For information concerning safety, the environment and the handling of the product, please refer to our EU safety data sheet. Our products are subject to continuous development. We therefore reserve the right to change the products and their manufacturing processes as well as all information contained in this document at any time and without prior notice.

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