

# HYDRAU-PLUS ECO HTB 15

BIODEGRADABLE HYDRAULIC OILS

326101401

**DYADE**  
LUBRICANTS



## HYDRO TREATED BASED HIGH PERFORMANCE READILY BIODEGRADABLE HYDRAULIC FLUID

This range of products comprises top-quality hydraulic and hydro turbine fluids that utilize the latest hydro-treated base oil technology and ashless, zinc-free additive technology. The specialized additive packs used ensure optimal performance and an extended service life. These fluids possess superior viscosity-temperature characteristics and excellent extreme pressure and anti-wear properties, providing reliable and trouble-free performance even in high operating temperatures. With a lifespan up to five times longer than standard mineral hydraulic oils, this product is not only biodegradable and non-toxic, but also highly sustainable. Its long life and cleanliness result in less waste material, low oil filter consumption, and, thanks to very low friction, up to 5% lower energy consumption. The product also boasts excellent water separation properties, allowing for easy drainage of water from systems when intrusion occurs. Moreover, the product has very low conductivity, enabling it to function as both a transformer and hydraulic oil. These products are highly suitable for

hydraulic equipment and hydro turbines operating in environmentally sensitive areas. They can be utilized in all available hydraulic applications, as well as light gear boxes, and are perfectly suitable for general lubrication purposes. Designed for trouble-free operation, they are especially useful in cases where conventional hydraulic fluids fail, such as sludge and deposit creation at higher temperatures. They are highly recommended for high-pressure hydraulic systems or equipment operating over wide temperature ranges, where it is crucial to maintain viscosity-temperature characteristics under high shear conditions. The product's high viscosity index ensures a low start-up viscosity and a stable, protective lubricating film even at high operating temperatures. These products are formulated to meet and exceed industry standards, including Denison HF-0, Eaton Vickers M-2950-S, and I-286-S. They are also suitable for use in ROV units.

## CATEGORY

- Hydraulic Fluids

## BENEFITS

- Excellent anti-wear protection
- Good emulsifying and air-release properties
- Good anti-oxidation for a long service life (up to 10.000 hours, ASTM D943)
- Lasts up to five times longer than the leading conventional hydraulic fluids
- Excellent anti-corrosion properties
- Excellent low & high temperature properties
- No sludge and deposit creation due to the absence of aromatics
- Zinc free formulation
- Low friction and therefore up to 5% less energy consumption in comparison with conventional hydraulic fluids

| PROPERTY                                       | METHOD     | VALUE          |
|--|------------|----------------|
| Appearance                                     | Visual     | Bright & clear |
| Viscosity @ 40 °C, mm <sup>2</sup> /s          | ASTM D445  | 15             |
| Viscosity @ 100 °C, mm <sup>2</sup> /s         | ASTM D445  | 4              |
| Viscosity index                                | ASTM D2270 | 175            |
| Flash point, °C                                | ASTM D92   | 160            |
| Pour point, °C                                 | ASTM D97   | -45            |
| Copper corrosion 3h @ 100 °C                   | ASTM D130  | 1a             |
| Corrosion prevention test A (distilled water)  | ASTM D665  | Pass           |
| Corrosion prevention test B (sea water)        | ASTM D665  | Pass           |
| Emulsion characteristics                       | ASTM D1401 | 40/40/0 (15)   |
| TAN, (max) mg KOH/g                            | ASTM D664  | 0.5            |
| FZG  | DIN 51 354 | 12             |
| Oxidation Resistance                           | ASTM D943  | >10000         |
| Foaming characteristics, 10 min - Sequence I   | ASTM D892  | Nil            |
| Foaming characteristics, 10 min - Sequence II  | ASTM D892  | Nil            |
| Foaming characteristics, 10 min - Sequence III | ASTM D892  | Nil            |

All data on this technical data sheet is indicative only

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