

HYDRAULIC BIO-D 32 & 46

Biodegradeable Hydraulic Oil Product code: See below

Product Description:

Hydraulic BIO-D are superior biodegradable hydraulic oils manufactured from natural refined rapeseed oil. It is fortified with proprietary additives to provide exemplary anti-wear and high temperature performance that is as good as if not better than that found in mineral oil based grades.

Hydraulic BIO-D oils are completely free of zinc and all other heavy metals thus avoiding environmental pollution through spillage or leakage.

Benefits:

- Very high level of biodegradability
- High oxidation stability
- Extended drain intervals
- Environmentally friendly

Applications:

Hydraulic BIO-D is recommended as a replacement for mineral oil based hydraulic oils, particularly where spillage or loss in plant and equipment used near to, or for the construction of, waterways and reservoirs. Hydraulic BIO-D oils are also recommended for all applications where some contact with humans or animals is a possibility. These applications include elevators, door openers, aircraft baggage handlers, people movers and total system losses, that frequently occur from burst hoses on hard worked hydraulic equipment.

It is important that if this product is being used for the first time in a hydraulic system that has contained a different grade, then adequate flushing should be carried out.

Product Specification:

| Biodegradability (CEC-L-33-T-82) | >98% | |
|----------------------------------|---------------------------------|--|
| DIN | 51524 Part 3 (except D943) | |
| ISO | 11158 category HV (except D943) | |



Typical Test Data:

| Grade | BD 32 | BD 46 |
|---------------------------------|------------|-------|
| Product Code | U422 | U423 |
| Specific Gravity @15.6°C | 0.923 | 0.925 |
| KV @ 40°C (cSt) | 32 | 45 |
| KV @ 100°C (cSt) | 7.4 | 9.7 |
| Viscosity Index | 209 | 208 |
| Flash Point (°C) | 210 | 220 |
| Pour Point (°C) | -30 | -25 |
| Biodegradability (%) | >98% | >98% |
| FZG test (DIN 51354) [A/8.3/90] | >11 | - |
| Vickers vane pump (IP 281) | | - |
| -Wt loss ring (mg) | 19 | |
| -Wt loss vanes (mg) | 0 | |
| Rust prevention (ASTM D 665) | | - |
| -Procedure A | Pass | |
| -Procedure B | Pass | |
| Copper corrosion (ASTM D130) | 1 a | _ |
| Air release (IP 313) | 4 mins | - |
| Foam (ASTM D 892) | | - |
| -5 mins blowing. Seq 1/2/3 | 0/0/0 | |
| -10 min settling. Seq 1/2/3 | 0/0/0 | |

Health & Safety:

Please refer to the health and safety data sheet, a copy of which is freely available to all of our customers.