



Peak Oil

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TECHNICAL DATA

Theseus Bio 46 Biodegradable Hydraulic Fluid



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Theseus Bio 46

Biodegradable Hydraulic Fluid

A high performance biodegradable hydraulic fluid, specially formulated to replace mineral based fluids in environmentally sensitive applications without compromise. Based on synthetic esters and incorporating the latest additive technology, it biodegrades rapidly in soil or water into harmless organic substances.

It is suitable for use in all-standard hydraulic applications, such as excavators, tractors, dredgers, boat hydraulics, lock gates, earthmovers and other horticultural equipment.

Performance Benefits

- ◆ *Greater than 90% biodegradability over a relatively short period ensures that any spillages/leakages cause less damage to the environment when compared to conventional mineral based hydraulics*
- ◆ *Inherent high viscosity index and shear stability offering maximum equipment protection over extreme operating temperatures, reducing equipment downtime and giving improved efficiencies*
- ◆ *Excellent anti wear protection dramatically reduces mechanical abrasion on critical internal moving parts greatly lowering the level of maintenance requirements*
- ◆ *Superior demulsability properties ensuring rapid separation from any water contamination allowing ingress to be removed from hydraulic system without any compromise on fluid performance*
- ◆ *Compatible with mineral oil, eliminating the need for extensive system flushing during changing over from mineral oil to Theseus Bio 46, therefore giving reduced changeover costs*



Typical Physical Characteristics

Characteristic	Theseus Bio 46
Specific Gravity @ 15°C	0.920
Kinematic Viscosity @ 40°C (cSt)	48.0
Kinematic Viscosity @ 100°C (cSt)	9.50
Viscosity Index	187
Pour Point °C	-40
Flash Point (COC) °C	310

Performance Characteristics

Shear Stability Index (P-SSI)	(DIN 51382)	<1
FZG Load Stage Fail	(DIN 51354)	>11
Demulsibility	(ASTM D1401)	40-40-0
Biodegradability	(CEC-L-33-T-82)	>90%

Health and Safety

This product is not known to offer any serious health hazard. We would however, recommend good standards of industrial hygiene are observed when handling the product. Further detailed information is available on request.

Storage

Drums should be stored on their sides in a clean dry place and protected from extremes of temperature, store >5°C.

The information given is correct to the best of our knowledge. It is offered in good faith but without guarantee as the conditions and methods of use of our products are beyond our control.