



Ultramax BD Range

Biodegradable hydraulic oils

Product code: See table below

Product Description:

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

Ultramax BD 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:

The Ultramax BD range 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. Ultramax BD 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.

Product Specification:

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



TECHNICAL DATA SHEET

Typical Characteristics:

Grade	BD 32	BD 46	BD 68
Product Code	H084	H046	H197
Specific Gravity @15.6°C	0.923	0.925	0.926
KV @ 40°C (cSt)	32	45	67
KV @ 100°C (cSt)	7.4	9.7	14.5
Viscosity Index	209	208	228
Flash Point (°C)	210	220	225
Pour Point (°C)	-30	-25	-24
Biodegradability (%)	>98%	>98%	>98%
FZG test (DIN 51354) [A/8.3/90]	>11		
Vickers vane pump (IP 281) -Wt loss ring (mg) -Wt loss vanes (mg)	19 0		
Rust prevention (ASTMD 665) -Procedure A -Procedure B	Pass Pass		
Copper corrosion (ASTMD130)	1a		
Air release (IP 313)	4 mins		
Foam (ASTMD 892) -5 mins blowing. Seq 1/2/3 -10 min settling. Seq 1/2/3	0/0/0 0/0/0		