



TECHNICAL DATA SHEET

AW-68

High Oleic
Hydraulic Fluid

DESCRIPTION

B2 biOil™ AW-68 “biodegradable/bio-based” High Oleic Hydraulic Fluid is specially formulated using advanced additive technology made with farmed feedstocks and naturally bio-derived renewable compounds for all hydraulic systems when used as an energy transfer medium (heat transfer, contamination removal, sealing and lubrication).

APPLICATIONS

The fluids are perfect for use with vane, piston and gear type pumps, especially for those over 1,000 PSI as well as a lubricant for compressors. Ideal for use in environmental sensitive areas or whereby environmental restrictions apply or are fully enforced.

TECHNICAL AND ENVIRONMENTAL FEATURES AND BENEFITS

B2 biOil™ high oleic advanced additive technology is a light, low odor anti-wear fluid(s) formulated with esters and vegetable oils plus ferrous and non-ferrous corrosion inhibitors. It does not contain zinc or heavy metals. The product provides oxidation and corrosion protection, delivers extreme-pressure/anti-wear activity; and, foam resistance while protecting the operator as well as the environment. The high oleic based formula increases oxidation stability upwards to 5,000 oil hours vs 1,500 oil hours with conventional mineral oil based hydraulic formulations.

High Oxidative Stability - Low Volatility - Excellent Anti-Wear Performance - High Viscosity Index – Hydrolytic Stability – Improved Heat Transfer – Natural Detergency – Enhanced Sealing – Long Lasting (Extended Change Intervals) – Less Maintenance – Increased Lubrication

High Biodegradability – Low Bioaccumulation – Low Toxicity – High Bio-Content – Rapid Breakdown – Minimal Environmental Risk – Reduced Risk to Wildlife and the Operator – Renewable Carbon Based

PHYSICAL PERFORMANCE PROPERTIES

Physical Properties	Method	b2 biOil AW-68
Kinematic Viscosity @ 40°C (cSt)	ASTM D445	50
Demulsibility (oil-water-cuff)	ASTM D1401	42-38-0
Separation Time (minutes)	ASTM D1401	30
Density @ 15°C	ASTM D4052	0.98
Flash Point, COC, °C	ASTM D92	232
Copper Strip (100°C / 3hrs)	ASTM D130	1a
Foam ml (Sequence I, II & III)	ASTM D892	0
Turbine Oxidation (dry process) hrs to 2.0 NNA	ASTM D943	200+
RPVOT (minutes)	ASTM D2272	100+
Pour Point, °C	ASTM D97	-30
Turbine Oil Ruest Test (distilled/sea water)	ASTM D665A/B	Pass
4-Ball Wear Test (40kg load/0.6 mm scar max)	ASTM D4172	0.48
Thermal Stability (copper/steel) color rating	ASTM D2070	#8 / #2
Thermal Stability (sludge mg/100ml) 25mg max	ASTM D2070	2.4
Hydrolytic Stability (copper wt change) 0.2 mg loss/max	ASTM D2619	0.075 mg/100 ml
Vane Pump Test	ASTM D7043	Pass
Hydraulic Pump Wear Test	ASTM D7043	Pass
Final TAN/Repeat	ASTM D7043	0.12/0.08



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