



ULTREX[®]

Biodegradable Hydraulic Oil

BIO 68

BULLETIN 85100e



Protection against leaking seals, contaminants, pump wear, and erratic operation.

PRODUCT OF CHOICE FOR ALMOST EVERY BIODEGRADABLE APPLICATION IN HYDRAULIC SYSTEMS

Provides Superior Equipment Protection for all TESCO EMI & HMI Top Drive Open & Closed Hydraulic Power Units.

- Prevents Rust and Corrosion
- Resistant to Oxidation
- Reduces Pump and Cylinder Wear
- Helps to Control Water and Other Contaminants
- Completely Biodegradable
- Ideal for Use with Vane Pumps, Piston Pumps, and Gear Pumps
- Prevents Seals from Leaking
- Controls Foaming to Reduce Erratic Operation

Meets or Exceeds the Following Performance Requirements:

- Denison-Abex HF-1, HF-2, HF-0
- Vickers I-286-S and M-2950-S
- US Steel 136 and 127
- JCB AW VG-32
- Parsons AMCA AW Hydraulic
- DIN 51504 part 2
- CEC-L-33-T-82 Test: 94%

Part Number Order Information:

5 USgal/19 L Pail	#731138-19L
55 USgal/208 L Drum	#731138-208L
330 USgal/1248 L Tote	#731138-1248L



A TOTAL ADDITIVE PACKAGE THAT SETS IT APART FROM ALL OTHER HYDRAULIC OILS

ADDITIVES

Premium Grade Base Oil

Highly refined vegetable base oil helps prevent oxidation, viscosity shearing and carbonization-even at high temperatures.

Anti-Wear Agents

Forms a lubricant film on metal surfaces in the presence of heavy loads and high temperatures. Prevents cold welding.

Rust and Corrosion Inhibitors

Blocks out corrosive elements such as acids, water, condensate and steam by forming a protective barrier on equipment surfaces to prevent chemical wear.

Friction Reducers

Plates out on metal surfaces to prevent friction and wear under heavy loads.

Seal Conditioners

Special compounds that soften and condition seals to keep them from hardening and cracking.

Oxidation Inhibitors

Extends service life of the lubricant by retarding the oxidation or breakdown process.

Metal Deactivators

Prevent corrosion on yellow metals such as bronze, copper and brass.

Leak Inhibitors

Most seal leaks occur because many oils cause seals to shrink. Special agents provide a controlled swell to bring the seals back to their normal size.

PHYSICAL PROPERTIES

PROPERTIES	BIO 68
Viscosity Index:	244
Viscosity @ 40°C (104°F), cSt:	65.46
Viscosity @ 100°C (212°F), cSt:	14.45
Api Gravity (ASTM D1298):	22
Fire Point (COC), (ASTM D92):	>321°C (>610°F)
Pour Point, (ASTM D97):	-37.2°C (-35°F)
Cloud Point, (ASTM D97):	-3.8°C (25°F)
Rust Protection, 24 Hours, Distilled Water (ASTM D665):	Pass
Corrosion Protection, 3 Hours @ 100° C (ASTM D130):	1A
Four-Ball Wear Test, Scar Diameter, (ASTM D2266):	0.36mm (.014in)
Timkin OK Load, (ASTM D2782):	18.1kg (40lbs)
Boiling Point:	>260°C (>500°F)
Vapor Pressure (MM HG):	<0.1
Vapor Density (Air=1):	>12
PH @ 100%:	N/A
Specific Gravity:	0.92
Evaporation:	<0.1
Flash Point:	>260°C (>500°F)

USED FOR:

Plants near bodies of water that are environmentally sensitive. Heavy duty straight hydraulics, all Sperry-Vickers vane and piston pumps for standard operation (14.06kg/cm (200psi), 1200RPM, 65.5° C - 79.4°C (150-175°F)) or severe operation (210.97kg/cm (3000psi), 2400RPM, 93.3°C (200°F)).

NOT FOR:

Brake systems, transmissions, aircraft. For Lucas hydraulic pumps or other silver-lined pumps Cincinnati milacron machine tools systems requiring water-based hydraulic oils. For universal multi-purpose power transmission systems found in rubber-tired backhoes and tractors.

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