

**Overview** ▶ BioFlo UTF is formulated from readily biodegradable, high lubricity base oils coupled with proprietary anti-wear and anti-corrosion additives to meet the requirements for Universal Tractor/Transmission Fluid (UTF), drive train/hydraulic fluid. This high performance formula can reduce operating temperatures and component wear in mobile and industrial hydraulic systems. Excellent thermal and oxidative stability assures superior service life with minimal viscosity change over a broad range of operating conditions. BioFlo Epic UTF is suitable for use in ecologically sensitive applications or wherever a readily biodegradable, high performance UTF is required.



BioFlow UTF fluids are formulated featuring our proprietary **eSyn™** technology and is available in ISO 46.

## Typical Properties ▼

Property	ASTM Test Method	UTF 46
Product Code		BF2103046
Specific Gravity	ASTM D1298	0.91
Viscosity, @40°C, cSt	ASTM D445	46
Viscosity, @100°C, cSt	ASTM D445	9.1
Viscosity Index (VI),	ASTM D2270	197
Pour Point, °F (°C)	ASTM D97	-31 (-35)
Flash Point, °F (°C)	ASTM D92	>470 (243)
Copper Corrosion,	ASTM D4048	1A
Rust Test A & B	ASTM D665	PASS
Biodegradability, %	OECD 301B	PASS >70
Minimally Toxic	OECD 201, 202, 203	PASS
Non Bioaccumulative		PASS
BioBased Content, %	ASTM D6866	>63

## Key Attributes / Approvals ▶



Any industry (construction, refuse, mining, dredging, marine, agriculture, forestry, etc.) utilizing mobile or stationary equipment where a UTTO is required, especially systems where a release into the environment is possible or where a leak or spill could reach a waste stream.

- Classified as Environmentally Acceptable Lubricants (EAL's) as per the EPA's guidance document that defines standards for Environmentally Acceptable Lubricants (EPA 800-R-11-002) and as required by EPA's 2013 U.S. Vessel General Permit (VGP)
- USDA Biopreferred Program
- Meets John Deere J20 C and J20 D specifications

- Meets Allison C3 & C-4 specification
- Meets Caterpillar TO-2 specification

**Additional Specifications:**

API: GL-4

Case Corporation (J.I. Case/Case I.H.C.):

MS-1204, 1205, 1206 (Powergard PFT)

MS-1207 (Hy-Tran Plus)

MS-1209 (Hy-Tran Plus)

MS-1210

JIC-143, 144, 145 (TCH Fluid)

JIC-185 (TFD Fluid)

Denison: (Pump only): HF-0, HF-1 & HF-2

Deutz-Allis: Hydraulic Trans Fluid

25743 (PF-821 XL)

257541

246634

Fiat-Hesston: AF-87

I.H.C.: B-5 & B-6 Hytran

John Deere:

J20 (A,B, Hy-Gard), J20C & J20D

Oliver: Type 55, Type 5J & Q1802

Renk: Bus Automatic Trans. Fluid

Sauer Sunstrand/Danfoss: Hydro Static Trans. Fluid

Sperry Vickers/Eaton:

I-280-S

M2950-S

Steiger: Hydraulic Trans. Fluid

Versatile: Gear & Hydraulic Trans. Fluid

Volvo:

Including WB-101

White Farm:

Q-1705

Q-1722

Q-1766

Q-1766B (UTHF)

Q-1802

Q-1826

ZF Transmissions: TEMPL03 & TEMPL06

See the Safety Data Sheet (SDS) for emergency, proper handling and disposal information.

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