

PRODUCT NAME

BioFlo UTF – Biodegradable Universal Tractor / Transmission Fluid

MANUFACTURER

BioBlend Renewable Resources, LLC.
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DESCRIPTION

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 UTF is suitable for use in ecologically sensitive applications or wherever a readily biodegradable, high performance UTF is required.

FEATURES AND BENEFITS

- Readily Biodegradable
- Excellent Thermal and Oxidative Stability
- High performance formulation can reduce operating temperatures and component wear
- Environmentally acceptable Lubricant (EAL)
- Zinc Free

PACKAGING

- 5 Gallon Pails
- 55 Gallon Drums
- 275 Gallon Totes

SUITABLE USES

Recommended for use in tractor hydraulic and heavy-duty transmission systems needing to meet or exceed the following:

- Meets John Deere J20C and J20D specifications
- Meets Allison C3 & C-4 specification
- Meets Caterpillar TO-2 specification

Also Meets these 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
- 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
- ZF Transmissions: TEMPL03 & TEMPL06

LIMITATIONS

Do not use below -25F (-31C). for lower temps utilize our BioFlo Synthetic UTF

STORAGE AND SHELF LIFE

Storage – Keep in a cool, dry and well-ventilated place. Store in a properly labelled, original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. To help maintain product quality, do not store in heat or direct sunlight.

Shelf Life - Product shelf life is 24 months from date of packaging. In some cases product can last longer, please contact your BioBlend representative for proper testing and confirmation instructions.

CAUTIONS

Ensure adequate ventilation. Do not breathe vapor/dust. Use personal protective equipment and avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. See the Safety Data Sheet (SDS) for emergency, proper handling and disposal information.

APPLICATION

- Follow recommendations provided in your equipment's owner's manual
- Follow your organization's manuals and/or best practices for preparation, cleaning,

conversion, application and ongoing maintenance practices

- If you have further questions, please contact BioBlend Tech Services by filling out the contact us form on bioblend.com

AVAILABILITY

Worldwide.

TECHNICAL SERVICES

For additional information including the Safety Data

Sheet (SDS), Frequently Asked Questions, and Glossary please visit bioblend.com.

APPROVALS AND CERTIFICATIONS

- USDA BioPreferred – 63% biobased
- Classified as Environmentally Acceptable Lubricants (EAL's) as per EPA standards for biodegradability, toxicity and bioaccumulation in aquatic environments.

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	-25 (-31)
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

The values quoted above are typical of normal production. They do not constitute a specification.

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