

BIOTRANS FX

Transmissions

KEY DATA



- ✓ AGRICULTURE & CONSTRUCTION
- ✓ TRANSMISSIONS
- ✓ UTTO

SPECIFICATIONS AND APPROVALS

International Specifications:

API GL-4

ISO 15380 : HEES

Manufacturer's approvals:

✓ MASSEY FERGUSON CMS M1145

✓ ZF TE-ML 06P

Meets the requirements of:

✓ MASSEY FERGUSON CMS M1143

✓ CLAAS / RENAULT AGRICULTURE

Suitable for the following equipments:

JCB, VOLVO, KOMATSU, CASE, FENDT, FORD,

Mc CORMICK, MASSEY FERGUSON, JOHN DEERE ...

APPLICATIONS

TOTAL BIOTRANS FX has been especially developed for **transmissions (CVT, Powershift...)** equipped with **wet brakes** and all gears (reduction units, angular gearbox...) requiring an **Extreme Pressure API GL-4** lubricant.

This lubricant is also perfectly adapted to high or low pressure **hydraulic systems** equipped with high performance filters on the suction or delivery sides.

TOTAL BIOTRANS FX may be used in **all seasons** thanks to its high Viscosity Index which makes it very fluid under cold temperatures (easy starting of the components and immediately efficient filtration) and viscous under hot temperatures (optimum and safe lubrication).

This lubricant is formulated with **renewable modified base oils**, conforming to the environmental criteria of main current labels.

PERFORMANCES AND CUSTOMER BENEFITS

TOTAL BIOTRANS FX has a **high biodegradability level** which makes it perfectly adapted to **sensitive areas** (cultivated land, quarries, rivers, forests...) to avoid any sustainable pollution risks due to oil leakages.

This lubricant guarantees **smooth clutching and braking operations** without chocks or excessive slippage responsible for disc coating damages.

TOTAL BIOTRANS FX also shows a **good compatibility with lubricated organ seals**.

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PHYSICAL AND CHEMICAL CHARACTERISTICS *

TEST	UNIT	TEST METHOD	RESULT
Kinematic Viscosity at 40 °C	mm ² /s	ASTM D445	73
Kinematic Viscosity at 100 °C	mm ² /s	ASTM D445	11.3
Viscosity Index	-	ASTM D2270	147
Pour Point	°C	ASTM D97	-42
Toxicity 201/202	-	OECD 201/202	Non-toxic
Biodegradability	%	CEC L33-A-93	84

* The features mentioned above are average values obtained with some variability in production and do not constitute a specification.

RECOMMENDATIONS FOR USE

Before using the product, the equipment's maintenance guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations.

If possible, the packaging should not be exposed to the elements. Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

HEALTH, SAFETY AND THE ENVIRONMENT

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet. This can be obtained on request from your local reseller and is available for consultation at <http://sdstotalms.total.com>.

This product should not be used for any purposes other than the ones for which it is intended.