



BIOTRANS FX



Very high quality **biodegradable lubricant** for **transmissions equipped with wet disk brakes** for agricultural machinery and Public Works equipment

SPECIFICATIONS AND APPROVALS

International specifications

API GL-4

ISO 15380 HEES

Manufacturers' approvals

- ✓ MF : CMS M1145/M1143
- ✓ ZF TE ML 06P

Meets the requirements of

- ✓ CLAAS / RENAULT AGRICULTURE

Suitable for the following equipment

JCB, VOLVO, KOMATSU, CASE, FENDT, FORD, MAC-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**.

PHYSICAL AND CHEMICAL CHARACTERISTICS*

TOTAL BIOTRANS FX		Method	Value
Kinematic Viscosity at 40°C	mm ² /s	ASTM D445	72.7
Kinematic Viscosity at 100°C	mm ² /s	ASTM D445	11.3
Viscosity Index	-	ASTM D2270	148
Pour Point	°C	ASTM D97	-33
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.

TOTAL LUBRIFIANTS

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TOTAL BIOTRANS FX

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www.lubricants.total.com



This lubricant does not cause adverse health effects when used in the intended application.

A safety datasheet is accessible on request from your local dealer or on the website www.quickfds.com