



# BIOTRANS LS FE 75W-90



Very high performance **synthetic, renewable, biodegradable lubricant**, dedicated to final reductions and **disc limited slip differential axles**.

## SPECIFICATIONS AND APPROVALS

| International specifications   | API GL-5 LS  |
|--|--|
| <b>Suitable for transmissions</b>  |  |
| <ul style="list-style-type: none"> <li>✓ LIEBHERR</li> <li>✓ VOLVO CE</li> <li>✓ TEREX</li> <li>✓ CASE NEW HOLLAND</li> <li>✓ JCB</li> </ul> | <ul style="list-style-type: none"> <li>✓ CLAAS - RENAULT</li> <li>✓ STEYR</li> <li>✓ DEUTZ</li> <li>✓ SAME</li> <li>✓ VALTRA...</li> </ul> |

## APPLICATIONS

TOTAL BIOTRANS LS FE 75W-90 has been developed for lubrication of axles **equipped with disc limited slip differential** systems of Public-Works or Agricultural machinery.

This lubricant is also perfectly adapted to self-locking differential systems of **passenger cars** and also in any **classical hypoid axles**, non-equipped with self-locking differential systems.

More generally, TOTAL BIOTRANS LS FE 75W-90 is used in all loaded gears (reduction or translation), requesting the use of a **reinforced Extreme-Pressure API GL-5** lubricant.

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

## PERFORMANCES AND CUSTOMER BENEFITS

TOTAL BIOTRANS LS FE 75W-90 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.

Thanks to its Extreme-Pressure chemistry, this lubricant provides a **maximum protection of very loaded gears** working with shocks and also assures **smooth clutching** without shocks nor excessive slippage of **self-locking friction discs**.

TOTAL BIOTRANS LS FE 75W-90 also shows a **good compatibility with lubricated organ seals**.

Its rheological and friction characteristics based on **FUEL ECONOMY** technology generate a **reduction of the mechanical energy losses** in the lubricated organ and then a **fuel consumption reduction**.

## PHYSICAL AND CHEMICAL CHARACTERISTICS\*

| TOTAL BIOTRANS LS FE 75W-90  | Method             | Value               |
|------------------------------|--------------------|---------------------|
| Kinematic Viscosity at 40°C  | mm <sup>2</sup> /s | ASTM D445<br>87     |
| Kinematic Viscosity at 100°C | mm <sup>2</sup> /s | ASTM D445<br>13.8   |
| Viscosity Index              | -                  | ASTM D2270<br>164   |
| Pour Point                   | °C                 | ASTM D97<br>-48     |
| Biodegradability             | %                  | CEC L33-A-93<br>>80 |

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

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**TOTAL BIOTRANS LS FE 75W-90**  
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[www.lubricants.total.com](http://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](http://www.quickfds.com)