



# Textran® TDH Premium

## High performance Universal Tractor Transmission Oil (UTTO)

Product Data Sheet

### Product description

Textran TDH Premium is a high performance Universal Tractor Transmission Oil (UTTO), formulated for use in the transmission and hydraulic systems, final drives and wet brakes of tractors and other off-road equipment.

Textran TDH Premium is formulated with mineral base stocks and a robust additive package, designed to offer improved equipment performance.

### Customer benefits

- Advanced anti-wear performance protects vulnerable components against scuffing and wear, reducing maintenance time
- Special friction modifiers provide smooth wet brake and power take-off operation and minimise chatter, stick-slip and squawk
- Excellent low temperature fluidity means fast circulation at start-up, and rapid equipment protection
- Highly shear stable, ensuring that the viscosity is retained throughout the fluid lifetime
- Oxidation stability prevents oil thickening during service, maintaining oil viscosity, extending service life and equipment protection
- Good filterability in hydraulic systems improves equipment uptime and reduces maintenance
- Compatible with a wide variety of elastomers, preventing fluid loss through leaks
- Durable rust and corrosion protection reduces maintenance downtime and costs
- Foam suppression improves protection and system performance

### Product highlights:

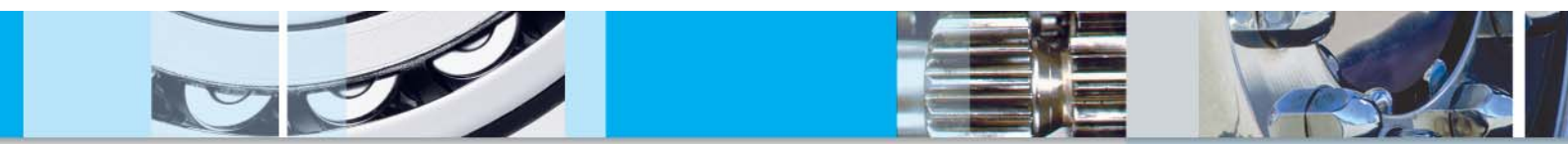
- Advanced anti-wear performance
- Minimises chatter, stick-slip and squawk
- Excellent start-up fluidity
- Keeps hydraulic systems clean
- Resists rust and corrosion
- Selected specification standards and OEM approvals include:
  - Allison Transmission
  - API
  - Case New Holland
  - Caterpillar
  - John Deere
  - Massey Ferguson
  - Volvo
  - ZF

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Global Lubricants





## Applications

- Textran TDH Premium is a multi-functional fluid, suitable for use in transmissions, final drives, power take-off clutches, hydraulics and wet brake systems of farm and industrial wheel and crawler tractors, construction and other off-road equipment. The multi-purpose capability is particularly useful in equipment models employing a common fluid reservoir
- Textran TDH Premium is designed to meet the demanding shear stability and wet brake performance incorporated into latest specifications from constructors such as Massey Ferguson (GIMA) and Volvo Construction Equipment
- In the past, Allison Transmission approved UTTO products for C4 applications. However in February 2001, all Allison C4 approvals for UTTO-type products were cancelled. Allison Transmission’s current preferred fluid type for off-road transmissions is an engine oil, such as Delo 400 Multigrade SAE 15W-40
- Textran TDH Premium does not have engine lubrication capability. If a Super Tractor Oil Universal (STOU) fluid is required, use Caltex Super Tractor 15W-40
- Some automotive axles require a special friction-modified limited slip fluid. Although Textran TDH Premium is friction modified, it does not have the EP performance needed in applications requiring a GL-5 limited slip fluid and so should not be used in those applications

## Approvals and performance specifications

### Performance specifications

- |                        |  |                                       |
|------------------------|--|---------------------------------------|
| • API                  | GL-4   | Suitable for application <sup>1</sup> |
| • Allison Transmission | C3   | Suitable for application              |
| • Caterpillar          | TO-2   | Suitable for application              |
| • Case New Holland     | CNH MAT 3505<br>(J. I. Case MS 1206/1207/1209)   | Suitable for application <sup>2</sup> |
| • Case New Holland     | CNH MAT 3525<br>(Ford ESN-M2C134-A/B/C/D,<br>ESEN-M2C86-B/C);<br>Ford New Holland<br>(FNHA-2-C-201.00) | Suitable for application              |
| • John Deere           | JDM J20C   | Suitable for application              |



# Textran® TDH Premium

High performance Universal Tractor  
Transmission Oil (UTTO)

*continued*

- |                   |           |                          |
|-------------------|-----------|--------------------------|
| • Massey Ferguson | CMS M1135 | Suitable for application |
| • Massey Ferguson | CMS M1141 | Suitable for application |

## Approvals

- |                                   |                |                       |
|-----------------------------------|----------------|-----------------------|
| • Massey Ferguson (GIMA)          | CMS M1143      | Approved <sup>3</sup> |
| • Massey Ferguson (GIMA)          | CMS M1145      | Approved <sup>4</sup> |
| • Volvo Construction<br>Equipment | 97303 (WB 101) | Approved              |
| • ZF                              | TE-ML 03E      | Approved              |
| • ZF                              | TE-ML 05F      | Approved              |
| • ZF                              | TE-ML 06K      | Approved              |
| • ZF                              | TE-ML 17E      | Approved              |

<sup>1</sup> Under low speed-high torque conditions. Not recommended for on-highway applications

<sup>2</sup> MS 1209 defines a zinc-free lubricant. However, Textran TDH Premium has been shown to give satisfactory performance in this application

<sup>3</sup> Homologation number M1143-1/M/062

<sup>4</sup> Homologation number M1145-1/P/019

continued

## Typical test data

| TEXTRAN TDH PREMIUM  |              |               |
|--|--------------|---------------|
| TEST   | TEST METHODS | RESULTS       |
| <b>Product Code</b>  |              | <b>510044</b> |
| Viscosity, Kinematic, 100 °C, mm <sup>2</sup> /s                                 | ASTM D445    | 9.4           |
| Viscosity, Kinematic, 40 °C, mm <sup>2</sup> /s                                  | ASTM D445    | 59            |
| Viscosity, Brookfield, -18 °C, mPa.s   | ASTM D2983   | 3550          |
| Viscosity, Brookfield, -20 °C, mPa.s   | ASTM D2983   | 4700          |
| Viscosity, Brookfield, -35 °C, mPa.s   | ASTM D2983   | 59,000        |
| Viscosity Index  | ASTM D2270   | 142           |
| Shear Stability 20 hr,<br>- Vis Kin 100°C after shearing mm <sup>2</sup> /s      | CEC L45A99   | 8.2           |
| Shear Stability 250 cycles,<br>- Vis Kin 100°C after shearing mm <sup>2</sup> /s | CEC L45A93   | 9.3           |
| Density, 15 °C, kg/l   | ASTM D4053   | 0.884         |
| Flash Point COC, °C  | ASTM D92     | 220           |
| Pour Point, °C   | ASTM D97     | -42           |
| Copper Corrosion, 3h, 100 °C   | ASTM D130    | 1a            |

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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**Health, safety, storage and environmental** Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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