



TECHNICAL DATA SHEET

TOTAL BIOSPEC TDH

BIO lubricants are a family of biodegradable and non toxic fluids. They were especially formulated to offer optimal performance for any lubricating application, i.e., hydraulic systems, industrial gears, ways, air, pneumatic and percussion tools. These lubricants are manufactured with biodegradable vegetable oils. These lubricants do not affect yellow metals and offer superb performance under the most adverse operating conditions. All the **BIO** lubricants From TRIBOSPEC offer the following characteristics: 1) superior load carrying capacity and resistance to abrasion, 2) superior protection against rust and corrosion, 3) outstanding anti-wear properties and 4) higher resistance to oxidation than most conventional biodegradable lubricants. Moreover, these lubricants form a tenacious film that adheres greatly, and thereby increases metal surface protection while reducing stray-mist. Clearly, these lubricants are ideal for industries to which the environment and the welfare of employees is a concern.

BIOSPEC TDH fluid is a premium quality universal tractor hydraulic fluid formulated for long-term service under severe conditions. It is a multi-purpose fluid designed for use in equipment utilizing a common sump or requiring a single fluid for final drive, transmission, differential, power take-off (PTO) units and wet brake systems.

BIOSPEC TDH is designed to provide operation over a wide range of ambient temperatures, providing excellent hydraulic and cold temperature response. It has high oxidation resistance and a low pour point.

BIOSPEC TDH is also formulated with anti-wear and extreme pressure (EP) additives that provide excellent load carrying capacity and wear protection. It protects foam, rust and corrosion and resists water.

APPLICATIONS

BIOSPEC TDH meets or exceeds virtually all tractor manufacturers' specifications. This fluid also exceeds performance specifications HF-0 from Denison, TO-2 from Caterpillar and API GL-4.

BIOSPEC TDH is available as a summer grade (7730) and a winter grade (6620). The **BIOSPEC TDHS BIO** is formulated using synthetic esters with excellent low temperature properties.

FEATURES

- Excellent high and low temperature operation
- Stable under high pressure
- Protection against rust and good compatibility
- Compatible with most seals
- Extreme pressure additives
- Practically non toxic
- Biodegradability index greater than 75%

AVANTAGES

- Good fluidity and efficient lubrication film
- Minimize the build up of sludge and varnishes that can plug filters and cause downtime
- Give excellent performance in newer equipment operating high pressure hydraulic systems (3000 psi or greater) and utilizing fine filters (10 microns)
- Protects against rust, corrosion and foam. Compatible with most TDH fluids and seals used in today's tractor
- Provides smooth wet-clutch performance and chatter-free wet-brake operations

TYPICAL PROPERTIES OF TOTAL BIOSPEC TDH

PROPERTY	METHOD	BIOSPEC TDH	BIOSPEC TDHS
Product code	-	7730	6620
Viscosity in cSt at 40°C	ASTM D445	44.0	44.0
Viscosity in cSt at 100°C	ASTM D445	9.5	9.5
Viscosity in cP at -35°C (-31°F)	ASTM D2983	50000	5000
Viscosity Index	ASTM D2270	> 200	> 200
Pour Point in °C	ASTM D97	-39	<-50
Flash Point in °C	ASTM D92	> 250	> 250
Biodegradability (% weight)	CEC L33-A-93	> 75	> 80

REMARK: Although the preceding values are typical properties, they do not represent guaranteed characteristics.