



TECHNICAL DATA

GB UNIBIO® TRANS 1

APPLICATIONS

There is an increasing awareness of the environmental impact of the large volume of lubricants entering the environment and, consequently, mineral-based lubricants in environmentally sensitive areas are being gradually replaced by biodegradable fluids.

To protect the environment, the use of environmentally considerate lubricants is essential, particularly where either the risk of spillage is high or total loss lubrication applies. However, the technical performance of such lubricants must have equal priority.

GB UNIBIO® TRANS 1 is a readily biodegradable and virtually non-toxic Universal Tractor Transmission Oil that has been developed, using specially selected additives and vegetable oils, to provide an equivalent performance to conventional mineral-based products in all the key performance areas. It is suitable for lubricating the transmission, axle and hydraulic systems of agricultural equipment.

PERFORMANCE FEATURES

GB UNIBIO® TRANS 1 has been formulated to meet the current technical and environmental requirements of today's agricultural transmission equipment and offers the following features:

- Full biodegradability according to all major standards
- A product which is free of genetically modified ingredients
- Good anti-wear performance
- Good oxidation stability
- Corrosion protection
- "Squawk-free" brakes
- Smooth clutch engagement
- Good final drive performance
- Hydrolytic stability
- Foam suppression
- Compatibility with mineral oils, their seals and elastomers

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GB LUBRICANTS

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Q 06093
ISO 9001



EMS 72776
ISO 14001



OHS 88475
OHSAS 18001

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PERFORMANCE DETAILS

GB UNIBIO® TRANS 1 can be used whenever the following specifications are referenced or recommended and when the ambient temperature is between -20°C and +40°C:

John Deere J20A, J20C, J14C, J21A
 New Holland M2C134-D, M2C41-B, M2C48-B, M2C53-A, M2C134-A, M2C134-B, M2C134-C, M2C186-B
 Case Corporation (Case I.H.) MS-1204, MS-1205, MS-1206, MS-1207, MS-1210
 Massey-Ferguson M1135, M1141, M1110, M1127, M1129-A
 Fiat Tutella Multi F
 Kubota UDT Fluid
 Transmissions Allison C-4, Caterpillar TO-2
 API GL-4

COMPATIBILITY

GB UNIBIO® TRANS 1 is compatible with 'conventional' mineral-based products, although contamination is likely to reduce the biodegradability and non-toxicity of the oil and should, ideally, be avoided.

CHARACTERISTICS

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS
Appearance	-	-	Amber liquid
Density @ 15°C	kg/m ³	IP 160	905
Kinematic Viscosity @ 40°C	cSt	ASTM D445	48.6
Kinematic Viscosity @ 100°C	cSt	ASTM D445	10.26
Viscosity Index	-	IP 226	206
Biodegradability	%	OECD 301B Modified Sturm	>74
Biodegradability	%	CEC-L-33-A-93	>90
WGK	-	-	1
Brookfield Viscosity @ -20°C	cP	ASTM D2983	1,600
Brookfield Viscosity @ -35°C	cP	ASTM D2983	11,150
Flash Point	°C	IP 34	177
Pour Point	°C	FTM 203	-40

STORAGE AND HANDLING

GB UNIBIO® TRANS 1 should be stored under cover to avoid water collecting in the rim of upturned barrels.

HEALTH, SAFETY AND THE ENVIRONMENT

GB UNIBIO® TRANS 1 is not classified as hazardous under current UK Health & Safety and Environmental Legislation when used in the application for which it is intended.

For guidance on storage and handling of all lubricants and related products, GB Lubricants recommend the Environment Agency, www.environment-agency.gov.uk, as an excellent source of advice.

If you have any queries, please do not hesitate to contact either your local Technical Sales Representative or our Technical Department.

The Company policy is to ensure that a range of products is supplied which complies with the latest specifications and codes within the relevant industry. As part of this development process, we therefore reserve the right to amend formulations and specifications, without prior notice.