



**Worcester Bearings  
& Engineering Services**  
first call for your engineering essentials

# AGRICULTURAL LUBRICANTS OVERVIEW

HARD WORKING  
LUBRICANTS FOR HARD  
WORKING MACHINERY



# Super Universal Tractor Oils (SUTO)

Millfarm XTOU Super Universal Tractor Oils are a multifunctional lubricant for engines, gearboxes, hydraulics, oil immersed wet brakes and final drives.

Part No	Product Name	Specifications:	
<b>5351</b>	<b>Millfarm XTOU 10W-30 Mineral</b> <b>ACEA:</b> E3 <b>API:</b> CG-4, SF	John Deere: J20C, J27A Case New Holland: MAT 3525, MAT 3526 Massey Ferguson: M1139, M1144, M1145 Ford: M2C159B/M2C159C, M2C134D Ford/New Holland: 82009201/2/3	Caterpillar: TO-2 Allison: C4 ZF: FXH, TE ML 06A, 06B, 06C, 07B MAN: M271 MB 227.1
<b>7859</b>	<b>Millfarm XTOU 15W-40 Mineral</b> <b>ACEA:</b> E3 <b>API:</b> CG-4, SF	John Deere: J20D, J27A Case New Holland: MAT 3525, MAT 3526 Massey Ferguson: M1135, M1143, M1145 JL Case/Case Int: MS-1204, MS-1206, MS-1207, MS-1209 Ford: M2C159B/C, M2C134D	Ford/New Holland: 82009201/2/3 Caterpillar: TO-2 Allison: C4 ZF: TE ML 06B, 06C, 07B MB 227.1

# Universal Tractor Transmission Oils (UTTO)

Used when a tractor or off-highway vehicle requires a combined hydraulic, transmission and final drive fluid with wet brake and power take-off performance.

Part No	Product Name	Specifications:	
<b>5118</b>	<b>Millitran 10W-30 Mineral</b> <b>API:</b> GL-4	John Deere: JDM, J20C, J27D Case New Holland: MAT 3525, MAT 3526 Massey Ferguson: M1135, M1141, M1143, M1145 JL Case/Case Int: MS-1204, MS-1206, MS-1207, MS-1209	Ford: M2C134D, M2C86B, M2C86C Kubota: UDT Caterpillar: TO-2 Volvo: WB101 (97303) Allison: C4 ZF: TE ML 06F, 06H
<b>6220</b>	<b>Millitran 10W-40 Mineral</b> <b>API:</b> GL-4	John Deere: JDM, J20C, J27D Case New Holland: MAT 3525, MAT 3526 Massey Ferguson: M1135, M1141, M1143, M1145 JL Case/Case Int: MS-1204, MS-1206, MS-1207, MS-1209	Ford: M2C134D, M2C86B, M2C86C Kubota: UDT Caterpillar: TO-2 Volvo: WB101 (97303) Allison: C4 ZF: TE ML 06F, 06H
<b>7522</b>	<b>Millitran HY 20 Fully Synthetic</b> <b>API:</b> GL-4	John Deere: JDM, J20C, J27D Case New Holland: MAT 3525, MAT 3526 Massey Ferguson: M1135, M1141, M1143, M1145 JL Case/Case Int: MS-1204, MS-1206, MS-1207, MS-1209	Ford: M2C134D, M2C86B, M2C86C Kubota: UDT Caterpillar: TO-2 Volvo: WB101 (97303) Allison: C4

# Hydraulic Oil

Part No	Product Name	Description	Specifications	
5037	Millmax 32	The Millmax hydraulic oil range offers reliable protection against corrosion and wear, whilst maximising power transfer for efficiency in mechanical applications.	DIN 51524 Part 2. Exceeds DIN 51517 performance requirements. Parker (Denison) HF-0, HF-1 & HF-2 Eaton M-2950-S (35VQ25 pump test) ISO 20763 Conestoga vane pump test ISO 11158 categories HH, HL & HM Vickers I-286-S3 (Industrial equipment)	Cincinnati Machine P-68, P-69 & P-70 Bosch Rexroth 90220 JCMAS P041 HK Hydraulic Specification ANSI/AGMA 9005-E02-RO GM LS-2 SEB 181222
5155	Millmax 46			
5160	Millmax 32 HV	The Millmax HV hydraulic oil range offers reliable protection against corrosion and wear for systems subject to temperature variations e.g. outdoor equipment, allowing maximised power transfer for efficiency in industrial applications.	DIN 51524 part II & part III Parker (Denison) HF-0, HF-1 & HF-2 Eaton M-2950-S (35VQ25 pump test) ISO 20763 Conestoga vane pump test ISO 11158 categories HH, HL, HM & HV ASTM D6158 SAE MS1004 Vickers I-286-S3 (Industrial equipment) Cincinnati Machine P-68, P-69 & P-70 Bosch Rexroth 90220 JCMAS P041 HK Hydraulic Specification ANSI/AGMA 9005-E02-RO GM LS-2 AIST 126 (US Steel) AIST 127 (US Steel)	SEB 181222DIN 51524 part II & part III Parker (Denison) HF-0, HF-1 & HF-2 Eaton M-2950-S (35VQ25 pump test) ISO 20763 Conestoga vane pump test ISO 11158 categories HH, HL, HM & HV ASTM D6158 SAE MS1004 Vickers I-286-S3 (Industrial equipment) Cincinnati Machine P-68, P-69 & P-70 Bosch Rexroth 90220 JCMAS P041 HK Hydraulic Specification ANSI/AGMA 9005-E02-RO GM LS-2 SEB 181222
5228	Millmax 46 HV			
5228	Millmax 32 BIO	A fully synthetic biodegradable hydraulic fluid based on modern ester technology and ashless anti-wear additives, classified as an Hydraulic Environmental Ester Synthetic type fluid (HEES).	DIN 51524 Pt 2 and 3 OECD (Organisation for Economic Co-operation and Development) 201, 202, 203 and 301B	
5650	Millmax 46 HFD (u)	A fire resistant and biodegradable hydraulic fluid based on full synthetic ester technology and classified as an HFD (u) type fluid.	DIN 51524 Part 2 and 3 Sperry Vickers I-286-S AFNOR NFE 48603 BSEN ISO 12922 : 2002 OECD (Organisation for Economic Co-operation and Development) 201, 202, 203 and 301B	

Engine Oils				
Part No	Product Name	Type	OEM Approvals/Specifications:	
7560	Millfarm XHPD 15W-40	Mineral ACEA: E7 API: CI-4, SL	MB 228.3 MAN M3275 Volvo VDS-3 Renault RLD, RLD 2, RVI	Cummins CES 20071, 72, 76, 77 MTU Type 2 CAT ECF-1-a, ECF-2
5752	Multifleet 15W-40	Mineral ACEA: E7 API: CI-4, SL	Mack EO-N, EO-M Plus MTU Type 2 MB 228.3 Renault RLD-2 MAN M 3275 CAT ECF-2, ECF-1-a	Volvo VDS-3 Deutz DQC III-10 Cummins 20076, 20077, 20078 Global DHD-1 Detroit Diesel DDC 93K215
5834	Trucksynth LE 10W-40	Fully Synthetic ACEA: E6, E7, E9 API: CI-4	MAN 3477 MAN 3271-1 MB 228.51 Volvo VDS-4, VDS-3, CNG Renault RLD-3, RLD-2, RXD, RGD Mack EO-O PREMIUM PLUS, EO-N, EO-M Plus MTU Type 3.1	Scania Low Ash CAT ECF -1-a Deutz DQC IV-10 LA Jaso DH-2 Cummins CES 20076, CES2077, CES 20078* *CES 20078 supported by API CI-4 and + 10TBN limit
7745	Trucksynth EE 5W-30	Fully Synthetic ACEA: E6, E7, E9 API: CJ-4, SN	MAN M 3677, M 3477, M 3271-1 MTU Type 3.1 Volvo VDS-4, VDS-3 Renault RLD-3 Mack EO-O Premium Plus, EO-N Premium Plus, EO-M Plus Deutz DQC IV-10 LA	Cummins CES 20081 CAT ECF-3 JASO DH-2 Detroit Diesel DDC 93K218 Voith Retarder Class B Scania LDF-4, Scania Low Ash

Grease					
Part No	Product Name	Description	Application	Operating Temp °C	Type
5270	Delta 2EP	Lithium based grease. Also available in Delta 1EP & Delta 3EP. Versatile multi-purpose grease used for general lubrication. It has good extreme pressure and anti-wear performance with a high degree of corrosion protection.	Commonly used in bearings in light and medium load pressure applications, and general greasing.	- 20°C to 140°C	Lithium Multi-Purpose Grease
5305	Deltaplex 2EP	Excellent mechanical and oxidation stability, providing long lasting lubrication at high temperatures. Excellent EP and anti-wear performance. Good corrosion resistance protects components operating in wet conditions. Deltaplex 2EP benefits over Delta 2EP: - Improved water resistance - Approximately 80% better performance in extreme conditions. - Deltaplex 2EP proves more cost effective due to reduction in repairs and extended intervals.	Commonly used in bearings from light, medium and heavy load extreme pressure applications. Better water resistance properties than standard Delta 2EP.	- 20°C to 150°C	Lithium Red Complex Grease
5819	PBL / Fifth Wheel Grease	A grease designed for heavy duty applications where adhesion, water resistance, shock loading and good corrosion protection is needed. This grease has a high level of lubricating solid graphite which keeps the working surfaces apart and substantially extends the life of components.	Bucket pins and bushes on heavy earth moving equipment. Electrical contacts and ‘push-fit’ cable connectors.	- 20°C to 140°C	Graphite Grease

Classic Engine Oils			
Part No	Product Name	Type	Description
7908 7909 7910	Pistoneeze SAE 30 Pistoneeze SAE 40 Pistoneeze SAE 50	Mineral API: SG	Engineered for classic vehicles, the Pistoneeze monograde engine oils are mineral based. These moderate detergent products effortlessly provide the level of wear and anti-oxidant protection required in classic vehicles and are also suitable for vintage vehicles incorporating a modern filtration system. Formulated with optimised ZDDP (zinc/phosphorus) levels.

Antifreeze and Coolant					
Part No	Product Name	Description	International Standards and Specifications		
5359	Alpine Antifreeze BT - Blue	Traditional Mono Ethelene Glycol (MEG) corrosion inhibitor. 2 years full protection. Protects to -56°C.	BS 6580 (2010) ASTM D3306 SAE J 1034		
5668	Alpine Antifreeze Extended - Red	OAT (Organic Acid Technology) corrosion inhibitor. 5 years extended protection. Protects to -56°C.	BS 6580 (2010) ASTM D3306, ASTM D4985 SAE J 1034 NATO S 759 FFV Heft R443 CUNA NC 956-16 UNE 26361-88	JIS K 2234* AFNOR NF R15-601* [*with exception of reserve alkalinity] Cummins CES 14603 Ford ESE M97B49-A, WSS-M97B44-D & ESD M97 B49-A	VAG TL 774 D/F (G12/G12+) John Deere H 24 B1 & C1 Volvo VCS



# OIL & FUEL SAMPLING

Oil sampling can give you the knowledge to safely extend your vehicle oil drain intervals and diagnose engine issues before they cause excessive damage, saving you money.



From our own dedicated state of the art laboratory, we can provide sampling and analysis services on your fuel and oil condition.

- **Viscosity:** Crucial for optimum lubrication to maximize performance.
- **Additive level:** Additive levels become depleted over time as they fulfil their purpose.
- **Contamination:** Oil can become contaminated by environmental factors, as well as by other oils.
- **Wear metals:** Wear metals in the oil offer an insight into not just the health of the oil but the health of the machine components.

## QUALITY LUBRICANTS FOR A RANGE OF REQUIREMENTS

Millers Oils provides oils, lubricants and treatments for the majority of vehicles and for a range of industrial requirements.

- **Automotive**
- **Motorsport**
- **Classic**
- **CV**

- **Off Highway**
- **Industrial**
- **Process Oils**



## WHICH OIL?

If you still aren't sure or would like some advice or assistance, the Millers Oils technical helpdesk is open Mondays to Friday – 01484 475060 or [technical@millersoils.co.uk](mailto:technical@millersoils.co.uk)

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