



CLAAS ORIGINAL Lubricants.

**CLAAS**





# Whatever it takes. CLAAS ORIGINAL Lubricants.

## CLAAS ORIGINAL lubricants.

Gentle and efficient: CLAAS ORIGINAL lubricants and antifreeze products are specifically designed for the growing requirements to be met by many machine parts. They also ensure smooth operation, are highly economical and approved by the CLAAS product experts without any exception. They guarantee maximum safety and enhance the performance when using your machine.

Whatever it takes. CLAAS Service & Parts.

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# Engine oils.

With their perfectly balanced formulation and additives, CLAAS AGRIMOT engine oils are optimised for the engine at the heart of every CLAAS machine. Maximising the reliability, service life and performance of the engines of CLAAS forage harvesters, combines, telehandlers, wheel loaders and tractors is our top priority when it comes to the development of lubricants.


### Advantages of CLAAS ORIGINAL engine oils

- Offer optimum protection against wear, corrosion, deposits and oil foaming, so prolonging the service life of the engine
- Extend the service intervals, saving time and costs
- Reduce fuel consumption thanks to the innovative composition and additives and also prevent excessive oil consumption
- Thanks to the additives, guarantee problem-free cold-starts when oil temperatures are low, and optimum lubricating reliability when they are high



Our range of engine oils includes the following products:

Designation	Specification	Approved for	Suitable for	Spare part no.	Container
 AGRIMOT SYNTEC FE 5W-30	ACEA E9 / E7 / E6 / E4, API CJ-4 / CI-4 plus / CI-4 / SM	MB 228.51, MAN M 3677, Deutz DQC IV-10 LA / TTCD, Liebherr LH-00-ENG LA, compat. w. Caterpillar ECF-3	Cummins CES 20081, FPT, Deere	00 0146 202 0 00 0177 546 1	208 l 20 l
AGRIMOT SYNTEC 10W-40	ACEA E9 / E7 / E6 / E4, API CJ-4 / CI-4 plus / CI-4 / SM	MB 228.51, MAN M 3477, Deutz DQC IV-10 LA / TTCD, Liebherr LH-00-ENG LA, compat. w. Caterpillar ECF-3	Cummins CES 20081	00 0146 203 0 00 0146 108 0	208 l 20 l
 AGRIMOT PROTEC FE 10W-30	ACEA E9 / E7 (E5), API CJ-4 / CI-4 plus / CI-4 / SM	MB 228.31, compatible with ECF-3		00 0180 194 0 00 0175 998 0 00 0180 180 1 00 0180 195 0	208 l 60 l 20 l 5 l
AGRIMOT PROTEC 10W-40	ACEA E9 / E7 (E5), API CJ-4 / CI-4 plus / CI-4 / SM	MB 228.31, compatible with ECF-3		00 0147 896 0 00 0147 897 0 00 0147 905 0	208 l 20 l 5 l
 AGRIMOT ULTRATEC FE 5W-30	ACEA E4 / E5 / E7, API CF	MB 228.5, Liebherr LH-00-ENG	Iveco 18-1804 FE, MAN M 3277	00 0147 348 0 00 0147 347 0 00 0147 895 0	208 l 20 l 5 l
AGRIMOT ULTRATEC 10W-40	ACEA E4 / E5 / E7, API CF	MB 228.5, Deutz DQC III-10, MAN M 3277		00 0147 482 0 00 0147 483 0 00 0147 898 0	208 l 20 l 5 l
 AGRIMOT SDX FE 15W-30	ACEA E7, API CI-4 / SL	MB 228.3, CES 20078 (20077 / 20076), Deutz DQC III-10, compat. w. Caterpillar ECF-2	New Holland, Deere, Perkins, SISU	00 0180 179 0 00 0180 178 0 00 0180 177 0 00 0180 196 0	208 l 60 l 20 l 5 l
AGRIMOT SDX 15W-40	ACEA E7 / E5, API CI-4 / SL	MB 228.3, CES 20078 (20077 / 20076), Deutz DQC III-10, compat. w. Caterpillar ECF-2	Deutz, Deere, Iveco	00 0147 478 0 00 0147 489 0 00 0147 480 0 00 0147 481 0	208 l 60 l 20 l 5 l

 = Fuel Economy, especially fuel-efficient lubricants. Please see further details on page 12.



# Transmission oils.

CLAAS AGRISHIFT transmission oils have been specially developed to provide the machine's transmission with optimum protection. They are suitable for use in every CLAAS machine type – moreover, they meet the specifications of many common manufacturers of agricultural implements that are based on highly refined base oils and modern additive technology.



## Advantages of CLAAS ORIGINAL transmission oils

- Facilitate optimised wear protection and wear ratios and a longer oil life thanks to optimum lubrication
- Protect elastomers, hoses and seals
- Protect the transmission against corrosion, deposits and oil foaming
- Optimal prevention of temperature-dependent moisture
- Guarantee a longer operating life thanks to the thermal stability
- Offer planning reliability thanks to optimised lubrication at any oil temperature



The range of transmission oils includes the following products:

Designation	Specification	Approved for	Suitable for	Spare part no.	Container
AGRISHIFT GA 12	API GL-4 <b>Fulfils manufacturer specifications:</b> Massey Ferguson CMS M1141 / M1135, John Deere JDM J20C, Ford M2C 134D / FHNA 2C 201.00	GIMA CMS M1145 / M1143,		00 0147 392 0	208 l
		ZF TE-ML 03E / 05F / 06P /		00 0147 393 0	60 l
		17E / 21F, CLAAS Renault		00 0147 391 0	20 l
		Agriculture		00 0147 394 0	5 l
AGRISHIFT XE 10W-30	– <b>Meets manufacturer's specification:</b> Allison C4	ZF TE-ML 06H / 06M		00 0182 201 0	208 l
				00 0147 435 1	20 l
AGRISHIFT THFI	API GL-4 <b>Fulfils manufacturer specifications:</b> Massey Ferguson CMS M1141 / M1135, New Holland NH 420 A, Ford M2C 86B / 86C	Renault 180596 / 88.3		00 0147 432 0	208 l
				00 0147 431 0	60 l
				00 0147 433 0	20 l
AGRISHIFT BIO 45	API GL-4, AFNOR HV 68 multigrade, ISO 15380 HEES	GIMA CMS M1145 / M1143 ZF TE-ML 06P (ECCOM3.0)	Case, Fendt, Ford, John Deere, McCormick, Valtra ...	00 0147 490 0	20 l



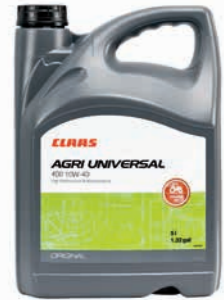
The range of transmission oils includes the following products:

Designation	Specification	Approved for	Spare part no.	Container
AGRISHIFT SYN EP 320	DIN 51517 p.3 – CLP, ISO 12925-1 CKD, AGMA 9005-E02 EP, US Steel 224		00 0146 097 0	5 l
 AGRISHIFT SYN FE 75W-140	API GL-5		00 0177 547 1	20 l
 AGRISHIFT SYN FE 75W-90	API GL-4 / GL-5, MIL.L. PRF 2105E, SAE J2360		00 0560 576 1 00 0147 493 1	20 l 5 l
AGRISHIFT BLS 80W-90	API GL-5-LS, MIL.L. 2105D <b>Fulfils manufacturer specifications:</b> Ford M2C 104A, Steyr	ZF TE-ML 05C / 12C / 21C	00 0147 396 1	208 l
			00 0147 397 0	20 l
			00 0147 398 0	5 l
AGRISHIFT MT 80W-90	API GL-5, MIL.L. 2105D	ZF TE-ML 12E / 17B / 19B	00 0147 399 0	208 l
			00 0147 430 0	20 l
			00 0181 004 0	5 l

 = Fuel Economy, especially fuel-efficient lubricants. Please see further details on page 12.

# Universal tractor oils.

CLAAS AGRI UNIVERSAL are multifunction oils for engines and transmission and hydraulic systems in the older generation of CLAAS tractors. Thanks to a special combination of basic oils and selected additives, they guarantee smooth running of the tractor's engine and systems in every season.



## Advantages of CLAAS ORIGINAL universal tractor oils

- Thanks to their universal character, they rule out any confusion with other lubricants, so saving space and storage costs
- With their special formulation, they provide ideal protection against corrosion, deposits, oxidation, oil foaming and wear
- Ensure ideal hot and cold operation on account of their wide viscosity range and low pour point
- Their selection of special base oils prevents excessive oil consumption

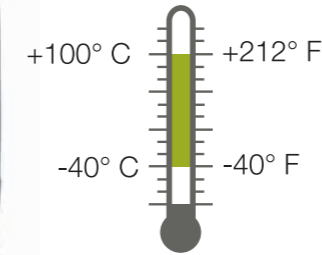


The range of Universal tractor oils includes the following products:

Designation	Specification	Approved for	Applications	Spare part no.	Container
AGRI UNIVERSAL 400 10W-40	ACEA E3, API CG-4	GIMA CMS M1145 / M1144, ZF TE-ML 06B / 07B	<b>Multifunction:</b> Ford M2C 159B3, Massey Ferguson CMS M1139, John Deere JDM J27 <b>Engines:</b> ACEA E3, API CG-4/SF, Deutz, Iveco, Perkins Phase 1 <b>Tractor gearboxes:</b> Case MS 1206 / 1207, John Deere JDM J20A / J20C, Ford M2C86A / M2C134C / M2C134D, FNHA 2 C 201.00, Massey Ferguson CMS M1127A / M1135 <b>Manual transmission:</b> API GL-4 <b>Automatic transmission:</b> Caterpillar T02, GM Allison C4	00 0147 441 0 00 0147 443 0	208 l 20 l
AGRI UNIVERSAL 300 15W-40	ACEA E2, API CF-4 / CE / SF	GIMA CMS M1145 / M1144, ZF TE-ML 06B / 07B	<b>Engines:</b> Ford M2C 159B3, Massey Ferguson CMS M1139, John Deere JDM J27 <b>Tractor gearboxes:</b> John Deere JDM J20A / J20C, Ford M2C86A / M2C134D, FNHA 2 C 201.00, Massey Ferguson CMS M1127A / M1135 <b>Manual transmission:</b> API GL-4 <b>Automatic transmission:</b> GM Allison C4	00 0147 486 0 00 0147 485 0 00 0147 487 0	208 l 60 l 20 l

# Hydraulic oils.

CLAAS AGRIHYD hydraulic oils have been specially designed for the particular requirements of agricultural machinery and can also be used in many other hydraulic circuits.



## Advantages of CLAAS ORIGINAL hydraulic oils

- Guarantee ideal functioning of the hydraulic system even in the case of extremely high operating pressures
- Can be used at any time of year thanks to the high viscosity and low pour point
- Form a fine film of lubricant so that all parts that slide and roll against one another function perfectly, while at the same time protecting against corrosion, wear, deposits and oil foaming
- Offer excellent filtering properties even where water is present
- Protect elastomers, hoses and seals



The hydraulic oils range includes the following products:

Designation	Meets the requirements of the following standards	Exceeds the requirements of the following standards	Spare part no.	Container
AGRIHYD XTREME 46	HVLPD HC 46, DIN 51 524-3, HEPR, ISO 6743-4, CEC-L-33-A-93 / CEC-L-103-12		00 0180 175 1 00 0180 176 1	210 l 20 l
AGRIHYD HVLP-D 46		ISO 6743/4 – HV, DIN 51524 p.3 – HVLP, AFNOR NF 48 603 – HV	00 0147 446 0 00 0147 447 0 00 0147 142 0	208 l 20 l 5 l
AGRIHYD HV 46		ISO 6743/4 – HV, DIN 51524 p.3 – HVLP, AFNOR NF 48 603 – HV	00 0147 444 0 00 0147 445 0 00 0147 901 0	208 l 20 l 5 l

# Lubricating greases.

CLAAS AGRIGREASE is available for optimum lubrication during operation of all rotating parts on CLAAS machines. Thanks to their special composition of base oils, thickeners and selected additives, ORIGINAL lubricating greases are ideally suited to the particular requirements of the agricultural sector, reapplied either manually or with precision accuracy in central lubrication systems.

## Advantages of CLAAS ORIGINAL lubricating greases

- Reduce the maintenance requirements for the machine and minimise friction and mechanical wear thanks to the permanent film of lubricant
- Have excellent thermal stability which guarantees a high resistance to temperature fluctuations
- Adhere very well to metallic surfaces
- Reduce wear, so limiting the intervals between grease top-offs
- Are mixable with most other greases based on conventional soaps and this facilitates fast, easy application
- Do not contain any lead or other heavy metals dangerous to health



The range of greases includes the following products:

Designation	Specification	Approved for	Meets the requirements of the following standards	Spare part no.	Container
AGRIGREASE EP 3	EP 3 Grease, NLGI 3		ISO 6743-9: L-XBEHB 3	00 0147 919 0	50 kg
			DIN 51502: KP3P-20	00 0202 249 1	5 kg
				00 0241 793 1	0.4 kg
AGRIGREASE EP 2	EP 2 Grease, NLGI 2		ISO 6743-9: L-XBCEB 2, DIN	00 0146 099 0	50 kg
			51502: KP2K-25	00 0147 341 0	5 kg
				00 0147 437 0	0.4 kg
AGRIGREASE LC 00 / 000	NLGI 00 / 000	Mercedes-Benz, MAN, Willy Vogel, Lincoln	DIN 51502: MP 00 / 00K-45, ISO 6743-9: L-XECFB000	00 0147 438 0	1 kg

# Antifreeze products.

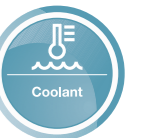
The antifreeze in the CLAAS ORIGINAL range of consumables offers reliable protection against corrosion of the engine's cooling system as well as against overheating and frost and optimises the performance of the machine's cooling system.

## Advantages of CLAAS ORIGINAL antifreeze products

- Not only reduce the freezing point of water in winter but also increase its boiling point, so minimising the risk that the radiator will overheat in summer
- Protect the different metals with which the antifreeze comes in contact in the circuit

- Do not react with elastomers, hoses or seals
- Ready-mixed products. Make for ease of handling on account of the perfectly balanced mixing ratio (50% water content)
- Concentrated product: the concentrate is mixed with water in accordance with your own individual requirements for the application in question, offering protection against the following temperatures on the basis of the mixture ratio:

Proportion of coolant	Proportion of water	Lowest temperature protection
1	1	-37°C
1	2	-15°C
2	3	-25°C



The range of antifreeze products includes the following products:

Designation	Specification	Meets the requirements of the following standards	Spare part no.	Container
AGRICOOL OAT 0 (Ready-mixed)	ASTM D3306 / D4985, NFR 15-601, BS 6580	Caterpillar, MB 326.3, Deutz, CLAAS Renault Agriculture DPS engines	00 0147 473 1	210 l
			00 0147 472 1	20 l
			00 0147 471 1	5 l
AGRICOOL OAT 0 (Concentrate)	ASTM D3306 / D4985, NFR 15-601, BS 6580	Caterpillar, MB 325.3 / 326.3, Deutz, CLAAS Renault Agriculture DPS engines	00 0146 472 0	20 l
AGRICOOL SI-OAT 50 (Ready-mixed) <sup>1</sup>	AS 2108-2004, ASTM D 3306 / D 4985 / D 6210, SAE J1034, ÖNORM V 5123, CUNA NC 956-16, JIS K 2234:2006, SANS 1251:2005, SH 0521-1999, BS 6580:2010	MB 325.5, MAN 324 TYPE SI-OAT, Cummins CES 14603, VW / Audi / Seat / Skoda VW-TL 774G, Lamborghini / Bentley / Bugatti VW-TL 774G, Porsche (from model year 1997): 911, Boxster, Cayman, Cayenne, Panamera	00 0146 100 0	210 l
			00 0146 101 0	20 l
			00 0146 102 0	5 l
AGRICOOL SI-OAT 50 (Concentrate) <sup>1</sup>	AS 2108-2004, ASTM D 3306 / D 4985 / D 6210, SAE J1034, ÖNORM V 5123, CUNA NC 956-16, JIS K 2234:2006, SANS 1251:2005, SH 0521-1999, BS 6580:2010	MB 325.5, MAN 324 TYPE SI-OAT, Cummins CES 14603, VW / Audi / Seat / Skoda VW-TL 774G, Lamborghini / Bentley / Bugatti VW-TL 774G, Porsche (from model year 1997): 911, Boxster, Cayman, Cayenne, Panamera	00 0146 201 0	20 l
AGRICOOL SI 100 (Ready-mixed) <sup>2</sup>	AS 2108-2004 / ASTM D 3306 / ASTM D 4985 / BS 6580:2010 / AFNOR NF R 15 601 / ÖNORM V 5123 / CUNA NC 956-16 / JIS K 2234:2006 / SAE J1034 / SANS 1251:2005 / SH 0521-1999	MB 325.0, MAN 324 Type NF, MWM TR 0199-99-2091, MTU MTL 5048, Deutz H-LV 0161 0188, Liebherr TLV 035 / TLV 23009 A, BMW N 600 69 0, Bundeswehr TL 6850-0038/1, Jenbacher TA no. 1000-0201, Opel / General Motors B 040 0240, Porsche for 924 / 944 / 968 / 928, Saab 6901599, VW / Audi / Seat / Skoda TL 774-C (G11)	00 0147 475 1	20 l

<sup>1</sup> Required for the following MTU engines: OM 470 LA, 471 LA and 473 LA, 936 LA

<sup>2</sup> Required for ATOS 300 / 200



# Fuel Economy lubricants.







Thanks to their innovative and special composition, CLAAS ORIGINAL Fuel Economy lubricants reduce friction in the machine, so contributing to an efficient use of fuel.


## Advantages of CLAAS ORIGINAL Fuel Economy lubricants

- Reduce fuel consumption: consumption optimised by up to 6% with consistent performance<sup>1</sup>
- Minimise costs and optimize operating performance
- Increase harvest efficiency with the same throughput and lower fuel costs



The range of greases includes the following products:

Designation	Specification	Approved for	Spare part no.	Container
 AGRIMOT SYNTEC FE 5W-30	ACEA E9 / E7 / E6 / E4, API CJ-4 / CI-4 plus / CI-4 / SM	MB 228.51, MAN M 3677, Deutz DQC IV-10 LA / TTCD compatible with Caterpillar ECF-3, Cummins CES 20081, FPT, Deere	00 0146 202 0 00 0177 546 1	208 l 20 l
 AGRIMOT PROTEC FE 10W-30	ACEA E9 / E7 (E5), API CJ-4 / CI-4 plus / CI-4 / SM	MB 228.31, compatible with ECF-3	00 0180 194 0 00 0180 180 1 00 0180 195 0	208 l 20 l 5 l
 AGRIMOT ULTRATEC FE 5W-30	ACEA E4 / E5 / E7, API CF		00 0147 348 0 00 0147 347 0 00 0147 895 0	208 l 20 l 5 l
 AGRIMOT SDX FE 15W-30	ACEA E7, API CI-4 / SL	MB 228.3, CES 20078 (20077 / 20076), Deutz DQC III-10, compatible with Caterpillar ECF-2	00 0180 179 0 00 0180 178 0 00 0180 177 0 00 0180 196 0	208 l 60 l 20 l 5 l
 AGRISHIFT SYN FE 75W-140	API GL-5		00 0177 547 1	20 l
 AGRISHIFT SYN FE 75W-90	API GL-4 / GL-5, MIL.L. PRF 2105E, SAE J2360		00 0560 576 1 00 0147 493 1	20 l 5 l

 = Fuel Economy, lubricants that achieve excellent fuel economy

<sup>1</sup> Independent of harvesting conditions and personal driving style

# Metalworking fluids.

Our metalworking fluids are matched specifically to meet the requirements of our automatic AQUA NON STOP COMFORT knife sharpener. In addition, they can be used for further metalworking processes.



## Advantages of CLAAS ORIGINAL metalworking fluids

- Minimize knife wear and maximize knife service life
- Perfectly matched lubrication and cooling properties reduce mechanical and thermal load during the sharpening process
  - Minimize costs and optimize overall machine performance
  - Maximise the service life of knives and the machine through high corrosion protection
  - Can be used for a range of different metalworking processes, thereby reducing storage costs



The range of metalworking fluids includes the following products:


Designation	Specification	Spare part no.	Container
AGRIGRIND	DIN 51 502, ISO 19378, ISO 6743-13 GA and GB, ISO 12925-1, ISO 6743-6	00 0145 104 1	1 l
GUIDETEC	CKC, ISO 11158, ISO 6743-4 HG (ISO VG 68)		
AGRIGRIND COOLTEC		00 0182 157 2	5 l

# Areas of application and advantages of our ORIGINAL lubricants in detail.



## Engine oils

### AGRIMOT SYNTEC FE 5W-30

 Fully synthetic lubricant, specially for the latest generations of engines used in CLAAS machines with or without exhaust aftertreatment systems

#### Application

All diesel engines up to EURO Stage IV or US EPA Tier 4 final

#### Customer benefits

- Recognised fuel-saving effect under all working conditions as a result of fully synthetic composition
- Process rationalisation through large number of specifications and approvals
- Extended oil-change intervals, therefore lower maintenance costs
- Improved cold-start characteristics
- A reduction in ash particles prevents blockage of the particle filter leading to optimised combustion and lower fuel consumption

### AGRIMOT SYNTEC 10W-40

Very high-performance lubricant, specially for the latest generations of engines used in CLAAS machines with or without exhaust aftertreatment systems


#### Application

Engines with exhaust aftertreatment to EURO Stage IV or US EPA tier 4 final

#### Customer benefits

- Process rationalisation through large number of specifications and approvals
- Extended oil-change intervals, therefore lower maintenance costs
- Outstanding engine protection through reduced wear, therefore longer service life for engine.
- The high temperature resistance guarantees outstanding lubrication of hot engine parts
- A reduction in ash particles prevents blockage of the particle filter leading to optimised combustion and lower fuel consumption

### AGRIMOT PROTEC FE 10W-30


 Very high performance lubricant, specifically designed to reduce the fuel consumption of diesel engines with exhaust aftertreatment systems

#### Application

Engines with exhaust treatment up to Stage IV (Tier 4)

#### Customer benefits

- Recognised fuel economy performance
- Improved cold-start characteristics
- A reduction in ash particles prevents rapid blockage of the particle filter which has a detrimental effect on combustion and causes higher fuel consumption
- The high temperature resistance guarantees outstanding lubrication of hot engine parts

 = Fuel Economy, lubricants that achieve excellent fuel economy

### AGRIMOT PROTEC 10W-40

Very high-performance lubricant, particularly suitable for diesel engines with exhaust aftertreatment systems


#### Application

Stage I (Tier 1), II (Tier 2), IIIA (Tier 3) and IV (Tier 4)

#### Customer benefits

- Improved cold-start characteristics
- A reduction in ash particles prevents rapid blockage of the particle filter which has a detrimental effect on combustion and causes higher fuel consumption
- The high temperature resistance guarantees outstanding lubrication of hot engine parts

### AGRIMOT ULTRATEC FE 5W-30

 Particularly powerful and fully synthetic lubricant saving fuel. Particularly suitable for lubricating the latest generation of diesel engines from European manufacturers, particularly the Cursor motors from FPT

#### Application

Heavy-duty diesel engines Stage I (Tier 1), II (Tier 2) or IIIA (Tier 3)

#### Customer benefits

- Recognised fuel economy performance
- Improved cold-start characteristics
- Outstanding for wear protection and cleaning power
- Excellent performance thanks to the synthetic base of the lubricant and the high-performance additives

### AGRIMOT ULTRATEC 10W-40

Very high performance, synthetic-based lubricant for diesel engines, with or without a turbocharger, that are used under the toughest operating conditions (combine harvesters, forage harvesters, etc.)

#### Application

Particularly suitable for lubricating the latest generation of diesel engines (exhaust standards Stage I (Tier 1), II (Tier 2), IIIA (Tier 3))

#### Customer benefits

- Improved cold-start characteristics
- Outstanding wear protection
- Perfect operating performance stability
- Extremely resistant to high temperatures in tough operating conditions (harvesting, ploughing, etc.)

### AGRIMOT SDX FE 15W-30

 Very high performance, fuel saving lubricant, developed for CLAAS tractor and machinery engines

#### Application

For diesel engines without exhaust aftertreatment and those that meet Stage I (Tier 1), II (Tier 2) and IIIA (Tier 3) exhaust standards

#### Customer benefits

- Recognised fuel economy performance
- Excellent viscosity stability when in operation
- Outstanding wear protection
- High cleaning and dispersing properties

### AGRIMOT SDX 15W-40


High-performance lubricant for diesel engines with or without a turbocharger, which are used at any time of year under the toughest operating conditions

#### Application

Ideally suited to lubrication of low emission engines (Stage I (Tier 1), II (Tier 2), IIIA (Tier 3))

#### Customer benefits

- High thermal resistance
- Excellent viscosity stability when in operation
- Outstanding wear protection
- High cleaning and dispersing properties

 = Fuel Economy, lubricants that achieve excellent fuel economy






# The areas of application and advantages of our ORIGINAL lubricants in detail.



## Transmission oils

<p><b>AGRISHIFT GA 12</b></p> <p>Special lubricant for mechanical power flow systems with oil bath clutches and brakes</p> <p><b>Application</b> For lubricating power flow systems, hydraulic circuits, lifting and servo systems</p> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>- Very high operating stability</li> <li>- Highly resistant to oxidation and corrosion</li> <li>- Improved protection against high pressure and wear</li> <li>- The friction characteristics ensure smooth gear changing, no clutch slippage and quiet braking</li> </ul>
<p><b>AGRISHIFT XE 10W-30</b></p> <p>Special lubricant for the CMATIC transmission of CLAAS AXION tractors and the ECCOM 3.5 transmission of CLAAS XERION tractors</p> <p><b>Application</b> CLAAS tractor transmissions</p> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>- Oil film with very high temperature resistance</li> <li>- High resistance to wear and high pressure</li> <li>- Very low pour point</li> <li>- The friction characteristics ensure smooth transmission without excessive slippage</li> </ul>
<p><b>AGRISHIFT THFI</b></p> <p>Lubricants for power flow systems, hydraulic circuits and oil bath disc brakes</p> <p><b>Application</b> Lubrication of hydraulic circuits in power lift and servo systems as well as transmission and steering systems</p> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>- Very high viscosity class</li> <li>- Special friction characteristics for wet brakes and clutch plates</li> </ul>
<p><b>AGRISHIFT BIO 45</b></p> <p>Very high quality biodegradable lubricant for transmissions with wet disc brakes</p> <p><b>Application</b> Recommended in cultivated areas subject to potential environmental impact and in ecologically sensitive areas which must be preserved</p> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>- Gentle transmission operation and braking with no jolting or excessive slippage which could result in damage to the clutch plate lining</li> <li>- Useful substitute for transmission and hydraulic lubricants owing to the extended oil change intervals</li> <li>- Lubricant with rapid biodegradable properties for environmentally friendly application</li> </ul>

<p><b>AGRISHIFT SYN EP 320</b></p> <p>High-pressure-resistant lubricant for gearbox and final reduction gear</p> <p><b>Application</b> Mechanical gearbox and final reduction gear, especially for enclosed gear mechanisms in agricultural machines</p> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>- Very high protection – at high and low temperatures – against abrasive wear through micropitting</li> <li>- Outstanding performance under extreme pressures and loads which optimises the service life and performance of the lubricated systems, even when subject to heavy loads and repeated shocks</li> <li>- Excellent durability in the face of high temperatures</li> </ul>
<p><b>AGRISHIFT SYN FE 75W-140</b></p> <p> High-performance, fully synthetic lubricant specially designed for heavy duty transmissions</p> <p><b>Application</b> Particularly suitable for axles requiring compliance with API GL-5 and for high-performance transmissions and reduction gearboxes</p> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>- Powerful</li> <li>- Excellent thermal stability ensuring high temperature resistance</li> <li>- Increased pressure resistance and improved wear properties extending service life and performance of axles</li> <li>- Improved efficiency through high shear resistance</li> <li>- Excellent defoaming properties and protection against rust</li> </ul>
<p><b>AGRISHIFT SYN FE 75W-90</b></p> <p> High-performance, fully synthetic lubricant specially designed for heavy duty transmissions</p> <p><b>Application</b> Particularly suitable for heavy duty reduction and transfer gearboxes even when operating at very high temperatures</p> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>- Exceptionally resistant to very high temperatures</li> <li>- Enhanced protection against high pressure and wear optimises the service life and performance of the lubricated systems even when subjected to heavy loading and repeated shocks</li> <li>- Improved protection for metals which are subject to oxidation, even where water is present</li> <li>- The optimised viscosity at all operating temperatures reduces energy losses</li> <li>- Excellent seal compatibility</li> </ul>
<p><b>AGRISHIFT BLS 80W-90</b></p> <p>High-pressure lubricant developed for limited slip differentials for self locking axles</p> <p><b>Application</b> Specially developed for front axles but also suitable for certain rear axles</p> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>- Eliminates vibrations and noises</li> <li>- High-pressure resistant</li> <li>- Stable at high temperatures</li> <li>- Protects against corrosion and rust</li> </ul>
<p><b>AGRISHIFT MT 80W-90</b></p> <p>High-pressure lubricant for transmissions and reduction gearboxes</p> <p><b>Application</b> Suitable for transmissions in agricultural machinery: manual gearboxes, hypoid gearboxes, axle drives</p> <p><b>Customer benefits</b></p> <ul style="list-style-type: none"> <li>- Protection against high pressure and wear delivers excellent performance under severe loading and repeated shocks</li> <li>- Anti-rust and corrosion protection on steel and copper even where water is present</li> <li>- High temperature resistance</li> <li>- Excellent seal and elastomer compatibility</li> </ul>

 = Fuel Economy, lubricants that achieve excellent fuel economy

# The areas of application and advantages of our ORIGINAL lubricants in detail.



## Universal tractor oils

### AGRI UNIVERSAL 400 10W-40

Universal high-performance lubricant, ensures outstanding lubrication of all components under all operating conditions and simplifies servicing

#### Application

Perfect for lubricating engines that comply with exhaust standard Stage I (Tier 1)

#### Customer benefits

- The excellent operating stability guarantees an outstanding service life for all components
- Simplifies maintenance and prevents application errors
- Reduces brake noise
- Outstanding wear protection
- Excellent protection against corrosion, rust and foaming oil
- Reduces the engine's oil consumption

### AGRI UNIVERSAL 300 15W-40

High-performance multifunction lubricant

#### Application

Suitable for older generations of engine

#### Customer benefits

- Protects against wear and reduces brake noise
- High pressure absorption capacity
- Very wide range of applications with optimum reliability



## Hydraulic oils

### AGRIHYD XTREME 46

High-performance hydraulic oil for flexible temperature application conditions (to -35 °C)

#### Application

Fully synthetic oil for extreme application conditions at high and low temperatures

#### Customer benefits

- Extends the oil change intervals and reduces component wear
- Can be mixed with mineral-oil-based hydraulic oils
- Biodegradable, so that this lubricant can be used in all protected areas in which environmentally friendly and biodegradable products are stipulated
- Makes long warming up periods redundant
- Protects seals, hoses and elastomers

### AGRIHYD HVLP-D 46

Cleaning hydraulic oil with a very high viscosity index; can be used at any time of year

#### Application

Specially developed for use in hydraulic systems for machines which are used in a dusty environment (e.g. for harvesting)

#### Customer benefits

- The high viscosity stability facilitates its application at high and low temperatures
- Excellent wear protection
- The excellent cleaning power guarantees incomparable cleanliness
- Highly resistant to oxidation and hydrolysis

### AGRIHYD HV 46

Hydraulic lubricant with very high viscosity class, specially developed for hydraulic systems which are exposed to high temperatures and pressures

#### Application

Particularly recommended for high operating pressures

#### Customer benefits

- Excellent shear stability and filtering properties as well as outstanding wear protection
- The consistent viscosity index facilitates smooth operation at any temperature
- The high resistance to oxidation and hydrolysis prevents formation of deposits



# The areas of application and advantages of our ORIGINAL lubricants in detail.



## Lubricating greases

### AGRIGREASE EP 3

High-pressure-resistant, high-temperature-resistant lithium complex multi-purpose grease, particularly suitable for lubricating heavy duty friction and roller bearings, wheel bearings, chassis and for various areas of application involving impact loading and vibrations

#### Application

Preferred application in pneumatic pump systems or cartridges, operating temperature range: -20°C to +160°C

#### Customer benefits

- Versatile range of applications
- Very high mechanical stability
- Forms a film of lubricant which is resistant to moisture, temperature fluctuations and dirt, so reducing servicing and costs
- Does not contain any substances that are harmful to health or the environment

### AGRIGREASE EP 2

High-pressure-resistant multi-purpose grease for lubricating all bearings, plugs, slide rails and racks which are exposed to heavy loading

#### Application

Preferred application in pneumatic pump systems or cartridges, operating temperature range: -25°C to +130°C

#### Customer benefits

- Very high mechanical stability
- Outstanding resistance to heavy loading and shocks
- Excellent properties where water is present
- Does not contain any substances that are harmful to health or the environment

### AGRIGREASE LC 00/000

High-pressure-resistant lithium/calcium multi-purpose grease for lubricating machines that have a central lubrication system

Operating temperature range: -45°C to +120°C

#### Application

Used for preference in pneumatic pump systems

#### Customer benefits

- Highly resistant film of lubricant
- Excellent pumping capability owing to the low consistency class and outstanding flow properties
- Versatile range of applications
- Excellent adhesion properties on metals
- Does not contain any environmentally harmful substances

#### Abbreviations:

ACEA = Association des Constructeurs Européens d'Automobiles (Association of European automobile manufacturers)

API = Classification system of American Petroleum Institute

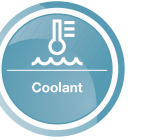
SAE = Viscosity value (Society of Automotive Engineers)

ISO = International Organization for Standardization

DIN = Deutsches Institut für Normung e.V. (German Standardization Institute)

ASTM = American Society for Testing and Materials

AFNOR = Association Française de Normalisation



## Antifreeze

### AGRICOOL

Antifreeze that is based on the latest technical developments – ensures optimum performance of the machine's cooling system, lowers the freezing point, counteracts overheating in summer and provides lasting anti-rust protection

#### Application

Antifreeze product for all machines, usable down to -37°C. Added bitterings prevent accidental ingestion by the user

#### Customer benefits

- Ready-to-use long life radiator protection
- Excellent heat transfer and cooling performance
- Long life antifreeze
- Outstanding protection against frost, corrosion and overheating
- Protection against cavitations



## Metalworking fluids

### AGRIGRIND GUIDETEC

Demulsifying slideway oil with excellent anti-stick-slip properties for lubricating metal and metal/plastic slide pairs on conventional guideways, guideways with pressure-feed lubrication, guides and roller bearings and oil-filled milling heads

#### Application

Preferred application as bed and slideway oil in metal working machines, particularly matched to meet the requirements of AQUA NON STOP COMFORT

#### Customer benefits

- Optimum lubrication of all lubrication points
- Maximised service life of machine
- Optimum operational reliability of machine
- Can be used both on horizontal and on vertical slideways due to outstanding adhesion properties

### AGRIGRIND COOLTEC

Antifreeze product without mineral oil, water-miscible antifreeze product, developed especially for sharpening use

#### Application

Preferred application as antifreeze/water emulsion in metal working machines, matched especially to meet the requirements of AQUA NON STOP COMFORT

#### Customer benefits

- Reduction of mechanical and thermal load during the sharpening process through optimum lubrication and cooling performance
- Minimising knife wear and maximising knife service life
- Minimising heat input and therefore minimum effect on material properties
- Maximising the service life of knives and the machine through high corrosion protection
- Minimising the costs and optimised overall machine performance



Whatever it takes. CLAAS Service & Parts.

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