Mobil™ lubricants for agriculture

More efficiency for your business









Whether tractor, combine harvester or gas engine – you only get the best results with machines and systems that run reliably. Choosing the right lubricants is key to this. Mobil™ high-performance lubricants have been specially developed to meet the requirements of the agricultural industry.

Our solutions help ensure maximum power output and protect engines, gears and drivetrains under the toughest conditions and in all seasons.

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See the benefits for yourself:

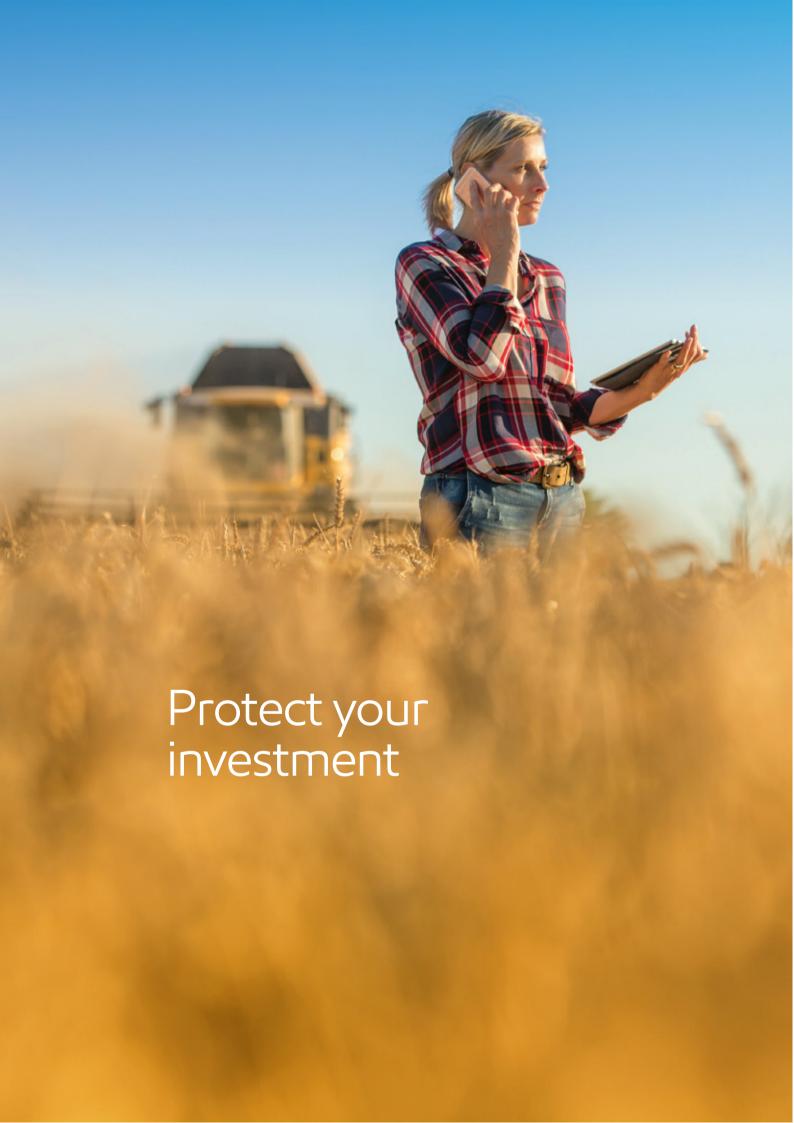
- Top performance even under difficult conditions
- High-performance lubricants for your entire vehicle fleet
- Reduced downtime helps improve operating costs
- Excellent wear protection even in extreme use
- Helps retain the value of your machines

Developed in the laboratory, proven in the field

Every drop of Mobil Delvac[™] contains
ExxonMobil's expertise and over 100 years of
lubricant experience. Our solutions are scientifically
developed and have proven themselves worldwide.
Our constant development meets or even
surpasses the specifications of almost all well
known manufacturers. One of our sales engineers
will be happy to advise you.



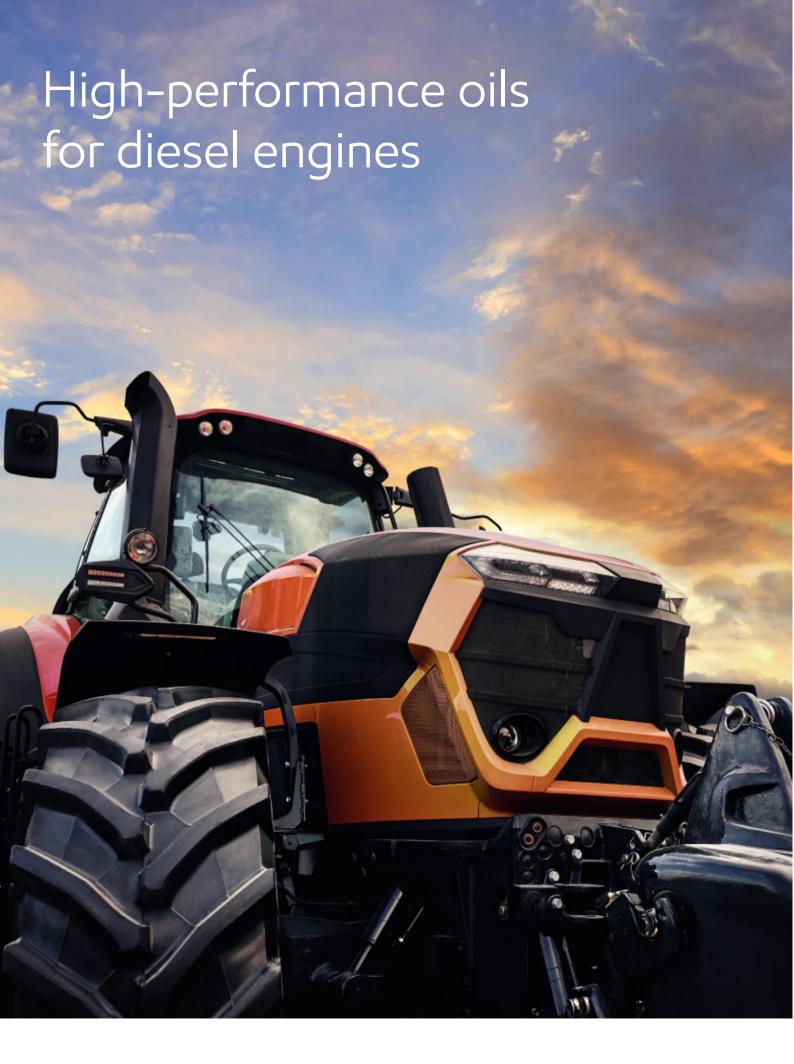






The high quality of Mobil Delvac™ high-performance lubricants has been verified by the German Agricultural Society (DLG).

Extensive tests on four of our developments have proved that Mobil lubricants can result in reduced fuel consumption in tractors.



Mobil Delvac 1™ LE 5W-30











For engines with DPF (diesel particulate filter)

Mobil Delvac 1[™] LE 5W-30 is a high-performance heavy-duty diesel engine oil for use in the most demanding conditions, helping to protect exhaust systems. It complies with the latest technological developments and offers the best possible protection for engine and emission systems. It can help to extend oil-change intervals and reduce fuel consumption¹.

- Excellent fluidity
- Increased protection during cold starts
- Potential to save fuel
- Excellent wear protection even under difficult
- Reduced oil consumption due to lower tendency to evaporate
- Protection of exhaust systems, especially systems with DPF
- Biodiesel compatible, follow OEM recommendations on potential service adjustments

Meets or exceeds the requirements

ACEA E4/ E6/ E7/ E9 API CI-4/ CI-4 Plus/ CJ-4/ CK-4 Caterpillar ECF-3 Cummins CES 20081/20086 DAF Extended Drain Ford WSS-M2C171-E JASO DH-2 SCANIA I DF-4

Engine manufacturers' approvals

Deutz DQC IV-18 LA DFS 93K222 Mack EOS-4.5 MAN M 3677 MB-Approval 228.31/228.51 MTU Oil Category 3.1 Renault Trucks RLD-2/ RLD-3 Volvo VDS-4.5

Recommended by ExxonMobil for applications according to

MAN M 3271-1/ M 3477 Renault Trucks RXD Iveco 18-1804 TLS E6



Mobil Delvac™ XHP ESP 10W-40











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Mobil Delvac™ XHP ESP 10W-40 is a synthetic extra high-performance diesel engine oil suitable for engines with DPF - for use in modern diesel engines with exhaust systems under the highest loads. It is also particularly suitable for use in mixed fleets and for very long oil-change intervals.

- · High level of thermal stability and excellent oxidation resistance
- Improved wear protection and corrosion protection
- Excellent fluidity at low temperatures
- Best possible protection during cold starts
- · Low ash, sulphur and phosphorus content
- · Protection of exhaust systems, especially systems with DPF
- Biodiesel compatible, follow OEM recommendations on potential service adjustments

Meets or exceeds the requirements

ACEA E4/ E6/ E7/ E9 API CH-4/ CI-4/ CI-4 Plus/ CJ-4/ CK-4 Caterpillar ECF-3 Cummins CES 20081/20086 DAF Extended Drain Isuzu DEO (w/DPD equipped vehicles) JASO DH-2 Scania Low Ash

Engine manufacturers' approvals

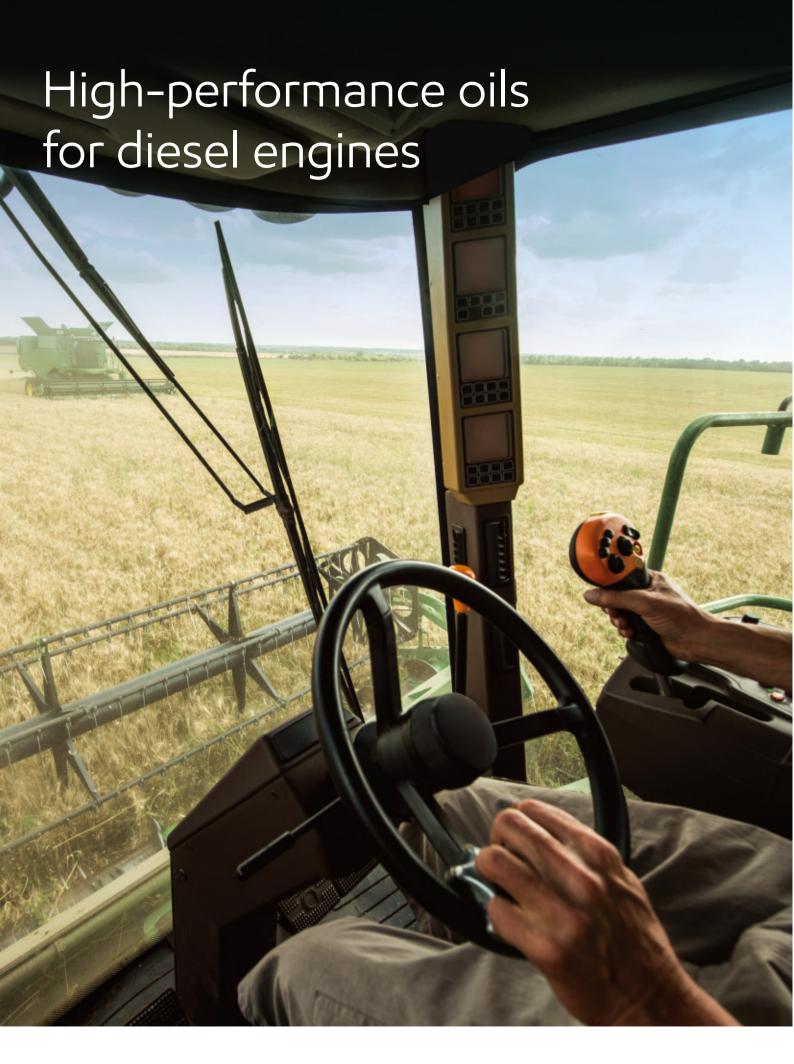
Deutz DQC IV-10 LA Mack EOS-4.5 **MAN M 3775** MB-Approval 228.31/228.51 MTU Oil Category 3.1 Renault Trucks RLD-2/ RLD-3 Volvo VDS-3/ VDS-4/ VDS-4.5 Mack EO-O Premium Plus ZF TE-ML 04C/ 23A

Recommended by ExxonMobil for applications according to

MAN M 3575/ M 3271-1/ M 3477 Renault Trucks RXD/ RGD lveco 18-1804 TLS E9



1 Fuel consumption was investigated and evaluated using two Volvo FM440 trucks (Euro V emission standard) loaded with 75% of the payload (approx. 32 t). Testing was carried out on Millbrook Proving Ground Ltd's test track in Great Britain. When comparing Mobil Delvac 1^m LE 5W-30 with a mineral 15W-40 engine oil, statistically significant fuel savings were found in Volvo trucks with an average reduction in fuel consumption of 1.8% under motorway driving conditions. Corrections were made when changes in the test environment had a statistically significant effect on fuel consumption. The improvements in fuel economy are dependent on vehicle/apparatus type, outside temperature, driving conditions and current fluid viscosities.



Mobil Delvac MX™ Extra 10W-40



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Mobil Delvac MX™ Extra 10W-40 is a high-quality oil with excellent performance that is also suitable for older models of diesel engines operating under demanding or normal conditions.

- Excellent fluidity at low temperatures
- Best possible protection during cold starts
- Improved protection against wear and corrosion
- · Contributes to longer engine life
- High level of thermal stability and excellent oxidation resistance

Meets or exceeds the requirements

ACFA F7 API CH-4/ CI-4/ SJ/ SL Caterpillar ECF-2 Cummins CES 20076/ 20077/ 20078

Engine manufacturers' approvals

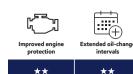
Mack EO-M PLUS/ EO-N Avtodisel YaMZ-6-12 Kamaz V-8 Euro-3, -4, -5 MB-Approval 228.3 MTU Oil Category 2 Renault Trucks RLD-2 Volvo VDS-3

Recommended by ExxonMobil for applications

ACEA A2/B2 API CF/ CF-4/ CG-4 Cummins CES 20071/20072 Detroit 7SE 270 (4-Stroke Cycle) MAN M 3275-1 Renault Trucks RLD Volvo VDS-2



Mobil Delvac MX[™] 15W-40







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Mobil Delvac MX[™] 15W-40 is a mineral diesel engine oil for both new and older generation diesel engines. It offers very good wear protection and so contributes to extending the engine's service life. Its high performance means it can be used in many applications and in mixed fleets.

- · High level of thermal stability and oxidation resistance
- Very good detergent/dispersing behaviour
- Wide range of applications

Meets or exceeds the requirements

ACEA E7 API CH-4/ CI-4/ SJ/ SL Caterpillar ECF-2 Cummins CES 20076/ 20077 FORD WSS-M2C171-D Isuzu DEO (w/o DPD equipped vehicles)

Engine manufacturers' approvals

Mack EO-M PLUS/ EO-N MB-Approval 228.3 MTU Oil Category 2 Renault Trucks RLD-2 Volvo VDS-3

Recommended by ExxonMobil for applications according to

ACEA B2/E3 API CF/ CF-4/ CG-4/ SH Cummins CES 20071/20072 Detroit 7SE 270 (4-Stroke Cycle) Mack FO-M MAN M 3275-1 Renault Trucks RD/ RD-2/ RLD Volvo VDS-2





Mobil™ Agri Extra 10W-40



Universal oil with excellent performance for use in agricultural tractors under normal and difficult conditions. This oil can be used for lubricating diesel engines, hydraulic systems and gears with or without wet brakes and wet clutches. Mobil™ Agri Extra 10W-40 is also suitable for most CVT gearboxes.

- Very good wear protection
- Very high alkalinity reserve (TBN)
- Excellent fluidity at low temperatures means rapid response of hydraulic systems
- Rust and corrosion protection
- Very good thermal stability and high oxidation resistance
- Versatility and flexibility in application
- Enables simplification in varieties

Meets or exceeds requirements

John Deere J20C

Manufacturers' approvals

ZF TE-ML 06B(*)/ 07B

Recommended by ExxonMobil for applications according to

ACEA E3
Allison C-4
API CE/ CF/ CF-4/ CG-4/ SF
API GL-4
Caterpillar TO-2
CNH MAT 3525/ MAT 3526
Ford ESEN-M2C 86-B/ ESN-M2C134-D/ M2C 159-B
Massey Ferguson M-1139/ M-1144/ M-1145
JICASE MS 1206/ MS 1207/ MS 1209
John Deere J27
Kubota UDT

Mobil™ Agri Super 15W-40



Multipurpose oil for lubrication in tractors. This oil can be used for lubricating diesel engines, hydraulic systems and gears with or without wet brakes and wet clutches.

- High alkalinity reserve (TBN)
- Protects the equipment against wear, rust and corrosion
- High level of thermal stability and oxidation resistance
- Versatility and flexibility in application

Manufacturers' approvals

ZF TE-ML 06B(*)/ 07B

Recommended by ExxonMobil for applications according to

Allison C-4
API CE/ CF/ CF-4/ SF
API GL-4
Caterpillar TO-2
Ford M2C 159-B
John Deere J27

Massey Ferguson M-1139/ M-1144/ M-1145

STOU:
(Super Tractor
Oil Universal) for engines,
clutches, hydraulic
systems and wet brakes
in tractors and

agricultural machinery

The products marked with (*) in the lubricant class 06B must not be used as of model year 09/2011

CVT

CVT (Continuously Variable Transmission) is an automatic gearbox with a continuously variable ratio. This is usually a combination of a step-type automatic gearbox and a hydrostatic drive. This connects the motor side with the differential side to allow the constant transmission of the maximum torque of the motor. CVT ensures an unlimited number of gear ratios without gear changes or engine pow er interruptions while continuously adapting the engine speed to the current load. It is therefore important to use a lubricant which matches the coefficient of friction provid ed by the manufacturer and which is adapted to the selected

type of CVT. Mobil™ Agri Extra 10W-40 can be used in the following CVTs provided the required power specifications are met:

New Holland TVT/Steyr CVT/Case CVX/Massey Ferguson DYNA VT / Same Deutz-Fahr / Fendt Vario / Valtra CVT DIRECT/ John Deere/ JCB.



Mobilfluid™ 428



Mobilfluid[™] 428 is a modern high-performance multi-purpose oil for tractors (UTTO). It meets or exceeds the requirements of most agricultural machinery manufacturers for hydraulic and gear oils.

The advanced high-performance Mobilfluid 428 oil is designed to optimise the performance of agricultural and commercial tractors operating in a wide range of conditions. It is recommended for use in agriculture, construction, quarries and mines. Mobilfluid 428 combines selected base oils with a modern additive package, resulting in a product with excellent thermal stability as well as high shear stability. It also fulfills the SAE 10W-30 classification. The product's frictional properties also mean a reduction in noise during wet braking and PTO (power take-off).

- Excellent friction properties and shear stability
- Effective wear protection and good high-pressure properties
- Excellent fluidity at low temperatures
- Excellent thermal and oxidation stability

Meets or exceeds the requirements

John Deere J20C ASTM D 6973 (Eaton 35VQ) high pressure vane pump test

Manufacturers' approvals

GIMA Massey Ferguson CMS M-1145 ZF TE-ML 03E/ 05F/ 06K/ 17E/ 21F Volvo WB-101

Recommended by ExxonMobil for applications according to

AGCO Powerfluid 821 XL Allison C-4

API GI -4

Case New Holland MAT 3505/ MAT 3525/ MAT 3540 JI Case MS 1204/ 1205/ 1206/ 1207/ 1209

Caterpillar TO-2

Denison UTTO/ THF

Ford ESEN-M2C86-B/ ESN-M2C134-D

Ford New Holland FNHA-2-C-201.00

Kubota UDT

Massey Ferguson M-1135/ M-1141/ M-1143

New Holland WB NWH 410B

Valtra G2-08

Claas Renault Agriculture (M1145)

JCB Gear Oil HP

Mobilfluid™ 424



Mobilfluid™ 424 is a high-performance multi-purpose oil for tractors that meets or exceeds the requirements of most manufacturers of agricultural machinery. The oil is suitable for lubricating hydraulic or hydrostatic systems, steering systems, differentials and gears with or without wet brakes and wet clutches. Its balanced formulation means it can be used in a wide range of operating conditions and environments. This oil is particularly suitable for reducing noise in wet brakes.

- Excellent fluidity at low temperatures
- High viscosity index
- Good wear protection properties, even under high pressure
- Excellent rust and corrosion protection
- Thermal stability and high oxidation resistance
- Optimised friction-reducing properties for the efficient operation of wet brakes and wet clutches

Meets or exceeds the requirements

ASTM D 6973 (Eaton 35VQ) high pressure vane pump test Caterpillar Multipurpose Tractor Oil (MTO) John Deere J20C Kubota UDT

Manufacturers' approvals

Volvo WB-101 ZF TE-ML 17E/ 5F/ 21F

Recommended by ExxonMobil for applications according to

AGCO Powerfluid 821 XL

Allison C-4

API GL-4

Caterpillar TO-2

Case New Holland MAT 3505/ MAT 3525

Denison UTTO/ THF

Ford ESN-M2C 134-D

Ford New Holland FNHA-2-C-201.00

JI Case MS 1204/ 1205/ 1206/ 1207/ 1209

John Deere J20C

Massey Ferguson M-1135/ M-1141

New Holland WB NWH 410B

UTTO: (Universal Tractor Transmission Oil) for mixed lubrication of gears, axles, hydraulic systems and wet brakes in agricultural machines and construction equipment.

Gear and drivetrain oils

Mobilube 1 SHC[™] 75W-90









Wide range of applications

Extended oil-chan intervals

nange Perf te

rformance at low temperatures

Mobilube 1 SHC™ 75W-90 is a high-performance gear oil. It is produced from synthetic base oils and an additive system of the latest technology. This oil was designed for highly loaded manual gears and rear drive axles. It has excellent load carrying capacity over a wide temperature range, for high pressures and shock loads. It has excellent thermal stability and oxidation resistance, a naturally high viscosity index (VI), a very low pour point and increased fluidity at low temperatures.

- High thermal stability and resistance to oxidation at high temperatures
- Excellent wear protection during operation at low / high torque
- Very high stability under pressure and impact loads
- Efficient protection of copper and copper alloys against oxidation and corrosion
- Improved frictional properties
- Exceptional fluidity at low temperatures
- Wide range of applications
- Low foaming tendency
- Compatible with most seals

Meets or exceeds the requirements

API GL-5/ MT-1 Bosch TE-ML 08 Scania STO 1:0, STO 1:1G, STO 2:0 A FS ZF TE-ML 07A

Manufacturers' approvals

Avtodisel YaMZ Gearboxes
MAN 341 Typ Z2
MAN 342 Typ S1
MB-Approval 235.8
SAE J2360
ZF TE-ML 02B/ 05A/ 12L/ 12N/ 16F/ 17B/ 19C/ 21A
Komatsu Part 195-32-61990-04
Mack GO-J

Recommended by ExxonMobil for applications according to

API GL-4 MAN 341 Typ E3 ZF TE-ML 08



Mobil Delvac Ultra™ Total Driveline 75W-90



Mobil Delvac Ultra™ Total Driveline 75W-90 is a high-performance gear oil. It is a fully synthetic drivetrain lubricant engineered to meet very demanding extended drain and warranty requirements. This oil was designed for highly loaded manual gears and rear drive axles. It has an excellent load carrying capacity in a wide temperature range. It has very good thermal stability and oxidation resistance, a high viscosity index (VI), a low pour point and good fluidity at low temperatures.

- Very high stability under pressure and impact loads
- Very good wear protection during operation at low / high torque
- Excellent frictional properties
- High thermal stability and resistance to oxidation at high temperatures
- Exceptional fluidity at low temperatures
- Efficient protection of copper and copper alloys against oxidation and corrosion
- Compatible with most seals
- Wide range of applications

Meets or exceeds the requirements

API GL-5 Meritor O76-E/O-94 Scania STO 1:0. STO 1:1G

Manufacturers' approvals

Mack GO-J MAN 341 Typ Z2 MAN 342 Typ M3 SAE J2360

ZF TE-ML 02B/ 05A/ 12L / 12N/ 16B/ 17B / 19C/ 21A

Recommended by ExxonMobil for applications according to

API GL-4

Mobil Delvac TOU PROVIDE TOU

Mobilube™ HD 80W-90 e 85W-140



High-performance motor vehicle gear oils made from high quality base oils and a balanced additive system. They are particularly suitable for highly loaded axles and end drives.

- Thermal stability
- Excellent properties under high pressure
- Wear, rust and corrosion protection
- Excellent oxidation resistance at high temperatures
- Compatible with usual seals

Meets or exceeds the requirements

API GL-5 Isuzu Axle Oil for Mobilube HD 80W-90

Mobilube™ LS 85W-90



High-performance oil especially for limited slip differentials, axle and final drives where API-GL-5 is required.

- Excellent frictional properties in limited slip differentials
- Thermal stability and high oxidation resistance
- Excellent properties at low temperatures
- Very good wear, rust and corrosion protection
- Extends the life of the lubricated components

Meets or exceeds the requirements

API GL-5 Isuzu LSD Gear Oil

Manufacturers' approvals

ZF TE-ML 05C/ 12C/ 16E/ 21C

Hydraulic oils for demanding conditions

Mobil SHC[™] Aware[™] Hydraulic 32, 46 e 68







applications

temperatures

Mobil SHC™ Aware™ Hydraulic series are biodegradable synthetic high-performance hydraulic oils for modern hydraulic systems. Mobil SHC Aware Hydraulic products are exceptionally high-quality, shear-stable hydraulic oils for a wide temperature range with controlled pumpability at low temperatures and a high level of wear protection for hydraulic systems operating under high load and high pressure. Compared to vegetable oil based hydraulic fluids (HETG), products formulated with synthetic esters (HEES), such as the Mobil SHC Aware Hydraulic Series, offer overall improved performance, especially at high operating temperatures, and have better thermal and oxidation resistance.

- Easily biodegradable
- Meets the requirements of the EU Ecolabel and the Blue Angel seal as well as the Swedish standard SS 15 54 34 (2015), BioBased certified®
- Shear stable, high viscosity index for a wide range of temperature applications
- Low pour point
- Excellent thermal and oxidation stability
- Excellent system cleanliness and reduction of deposits
- Very good demulsifying capacity for faster water separation
- Good compatibility with elastomers
- For agricultural and forestry machinery operating in environmentally sensitive area

Approvals

Blue Angel RAL-UZ 178
Denison HF-1
Denison HF-2
Denison HF-6
Eaton Brochure No. 03-401-2010, Rev 1
HOCNF Norway-NEMS, Black
ISO VG 46 and 68: USDA Certified BioBased Product

Meets or exceeds the requirements

ISO L-HEES (ISO 15380:2016)
AFNOR EU Ecolabel
ISO VG 32: Swedish Standard 15 54 34 AAV 32 Environmentally Acceptable (2015)
ISO VG 46: Swedish Standard 15 54 34 AAV 46 Environmentally Acceptable (2015)
ISO VG 68: Swedish Standard 15 54 34 AAV 68 Environmentally Acceptable (2015)
WGK Slightly Hazardous to water
ISO VG 32: JCMAS HKB VG32 (JCMAS P 042:2004)
ISO VG 46: JCMAS HKB VG46L (JCMAS P 042:2004)
US EPA VGP: 2013

Mobil DTE™ 10 Excel 46 e 68



Mobil DTE™ 10 Excel – high-performance oils are designed for use in hydraulic systems operating under high pressure. The zinc-free additive system offers a high level of wear protection. Mobil DTE 10 Excel Series high-performance oils provide exceptional cleaning performance and help extend oil-change intervals. The high volumetric efficiency can contribute to reduced energy consumption in mobile hydraulic systems, thus reducing operating costs.

- High viscosity index, excellent shear stability
- Oxidation resistance and thermal stability
- Compatibility with elastomeric hoses and seals
- Very good wear protection properties
- Excellent air separation efficiency
- Compatibility with different metals

Mobil DTE 10 Excel Series hydraulic oils are also available in the following ISO viscosity classes: 15, 22, 32, 100 and 150

Mobil DTE™ 10 Excel 46 meets or exceeds the requirements

China GB 11118.1-2011, L-HM (General) DIN 51524-2: 2017-16/ DIN 51524-3: 2017-16 ISO L-HV (ISO 11158:2009) JCMAS HK VG46W

Approvals for Mobil DTE™ 10 Excel 46

Bosch Rexroth Fluid Rating List 90245 Denison HF-0 Fives Cincinnati P-70 HOCNF Norway-NEMS, Black Ortlinghaus-Werke GmbH ON 9.2.10 ZF TE-ML 04K/ 04R Krauss-Maffei Hydraulic Oil

Mobil DTE™ 10 Excel 46 is recommended by ExxonMobil for applications according to

Eaton 694

(encompasses former I-286-S, M-2950-S, or M-2952-S)

Mobil DTE™ 10 Excel 68 meets or exceeds the requirements

China GB 11118.1-2011, L-HM (General) DIN 51524-2: 2017-16/ DIN 51524-3: 2017-16 ISO L-HV (ISO 11158: 2009)

Approvals for Mobil DTE™ 10 Excel 68

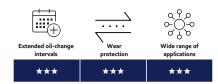
Bosch Rexroth Fluid Rating List 90245 Denison HF-0 Fives Cincinnati P-69 HOCNF Norway-NEMS, Black Ortlinghaus-Werke GmbH ON 9.2.10

Mobil DTE™ 10 Excel 68 is recommended by ExxonMobil for applications according to

Eaton 694

(encompasses former I-286-S, M-2950-S, or M-2952-S)

Mobil DTE™ 25 Ultra e 26 Ultra



Mobil DTE™ 20 Ultra - hydraulic oils offer up to 2 times longer cleanliness compared to comparable HLP oils, for example the Mobil DTE 20 series. These products offer improved thermal stability and are less susceptible to hydrolysis when used in a humid environment.

- Very high resistance to oxidation and thermal stability
- Very good cleaning performance, meaning long filter life and clean hydraulic systems
- High hydrolytic stability reduces corrosion on steel and copper components
- Excellent wet filterability and tolerance to water ingress
- Very good wear protection propertie

Mobil DTETM 20 Ultra hydraulic oils are also available in the following ISO viscosity classes: 22, 32 and 100

Mobil DTE™ 25 Ultra (ISO VG 46) and Mobil DTE™ 26 <u>Ultra (ISO VG</u> 68) meet or exceed the requirements

ASTM D6158 (Class HMHP)
China GB 11118.1-2011, L-HM (General)
China GB 11118.1-2011, L-HM (HP)
DIN 51524-2: 2017-06
ISO L-HM (ISO 11158:2009)
Only for Mobil DTE 25 Ultra: JCMAS HK VG46
(JCMAS P 041:2004)

Approvals for Mobil DTE $^{\rm IM}$ 25 Ultra (ISO VG 46) and Mobil DTE $^{\rm IM}$ 26 Ultra (ISO VG 68)

Only for Mobil DTE 25 Ultra: Husky Approved Hydraulic

Bosch Rexroth Fluid Rating List 90245

Denison HF-0

Denison HF-1

Denison HF-2

EATON E-FDGN-TB002-E

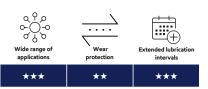
HOCNF Norway-NEMS, Black

Recommended by ExxonMobil for applications according to

Only for Mobil DTE 25 Ultra: Fives Cincinnati P-70 Only for Mobil DTE 26 Ultra: Fives Cincinnati P-69

High-performance greases

Mobilgrease XHP™ 221 e XHP™ 222



Mobilgrease XHP™ 221 and XHP™ 222 greases are suitable for extended service intervals in a variety of different applications under high mechanical loads. They demonstrate outstanding performance at high temperatures and feature excellent adhesion and structural stability as well as outstanding water resistance.

Mobilgrease XHP 221 and 222 greases have a high level of chemical stability and ensure reliable protection against wear and corrosion. They have a high dropping point and are recommended for maximum operating temperatures up to 140 $^{\circ}$ C.

Mobilgrease XHP 222 is suitable for lubricating both bearings and wheel hubs as well as joints and other components of the chassis, and Mobilgrease XHP 221 for use in central distribution systems.

- Coloured blue for easy identification
- Very good properties under extreme pressure conditions and very good wear protection
- Structural stability that provides excellent adhesion for improved sealing and protection against contaminants such as dust and water
- Excellent resistance against washing off with water
- High level of rust and corrosion protection
- Thermal stability and high resistance to oxidation at high temperatures
- Makes extended lubrication intervals and reduction of operating costs possible

Greases from the Mobilgrease XHP range are available in various NLGI (National Lubricating Grease Institute) classes: 00, 0, 1, 2 and 3. They are also available with different ISO VG grades.

Meets or exceeds the requirements

DIN 51825: 2004-06 - KP1N-20 (for Mobilgrease XHPTM 221) or KP2N-20 (for Mobilgrease XHPTM 222) NLGI GA: for Mobilgrease XHP 222 NLGI HPM+WR (for Mobilgrease XHPTM 222)

Manufacturers' approvals for Mobilgrease XHP 221

Fives Cincinnati P-72

Manufacturers' approvals for Mobilgrease XHP 222

Fives Cincinnati P-64

Mobilux™ EP 2



 $\label{eq:Mobilux} $^{\text{M}}$ EP 2 is a multi-purpose grease of NLGI class 2 based on a lithium soap, suitable for use in light agricultural equipment.$

- Excellent properties under extreme pressure conditions and wear protection properties under moderate loads
- Rust and corrosion protection
- Protects equipment under normal or moderately difficult operating conditions

l lubrificanti della serie Mobilux EP sono disponibili in varie classi NLGI, da 00 a 3.

Meets or exceeds the requirements

DIN 51825: 2004-06 - KP2K-20





Mobil Pegasus™ 605 Ultra 40



Mobil Pegasus™ 605 Ultra 40 is primarily intended for lubricating modern gas engines with high-power density, which are operated with biogas, waste disposal site gas or sewage gas. These gases contain harmful substances such as hydrogen sulphide, ammonia, halides and siloxanes. The oil is based on a balanced formulation that allows longer oil-change intervals and prevents the formation of deposits and varnish. At the same time, this formulation features very good protection against liner wear with high scuffing resistance.

- Excellent oxidation resistance, nitration resistance and thermal stability for extended oil life
- Very good wear protection properties for longer component service life
- Highly efficient cleaning and dispersing system for clean combustion chambers, oil circuits and a lower filter load
- Optimised alkalinity reserve to protect the bearings and friction surfaces from corrosion
- Suitable for catalytic converters
- Also suitable for piston compressors for sulphur or chlorine contaminated fuel gases

Manufacturers' approvals

INNIO Waukesha Landfill Applications MWM TR 0199-99-2105 INNIO Jenbacher TI 1000-1109 (CAT (catalyst) approved) INNIO Jenbacher TI 1000-1109 (Class B fuel gas, Type 2 & 3) INNIO Jenbacher TI 1000-1109 (Class B fuel gas, Type 4A, 4B & 4C) INNIO Jenbacher TI 1000-1109 (Class B fuel gas, Type 6 up to version E) INNIO Jenbacher TI 1000-1109 (Class C fuel gas, Type 2 & 3) INNIO Jenbacher TI 1000-1109 (Class C fuel gas, Type 4A, 4B & 4C) INNIO Jenbacher TI 1000-1109 (Class C fuel gas, Type 6 up to version E) Caterpillar Energy Solutions TR 2105, Lube Oils for Gas Engines (CG132, CG170, CG260) MAN M 3271-4, MAN M 3271-5

Meets or exceeds the requirements

Caterpillar

Mobil Pegasus™ 610 Ultra



Mobil Pegasus[™] 610 Ultra is intended for lubricating gas engines that are operated with heavily loaded biogas, landfill gas or sewage gas. This product is specially tailored for unpurified fuel gases with high levels of hydrogen sulfide and ammonia content as well as for sewage and waste disposal site gases with high levels of siloxane content. Mobil Pegasus 610 Ultra has been proven to help counteract abrasive wear caused by siloxanes and thus extend the service life of engine components, especially piston rings and liners.

- Mobil Pegasus™ 610 Ultra is a high-ash gas engine oil with a high total base number (TBN)
- High alkalinity reserve against adverse effects of corrosive combustion products on engine components
- Excellent oxidation stability and chemical stability
- Excellent wear protection for reduced piston wear and metal abrasion on cylinders and piston rings
- Allows longer oil-change and maintenance intervals
- Also suitable for (piston) gas compressors in biogas, waste disposal site and sewage gas plants

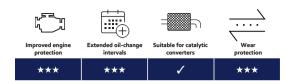
Manufacturers' approvals

MAN M 3271-4

Caterpillar Energy Solutions TR 2105, Lube Oils for Gas Engines (CG132, CG170, CG260) MWM TR 0199-99-2105, Lube Oils for Gas Engines INNIO Jenbacher TI 1000-1109 (Class C fuel gas, Type 2 & 3) INNIO Jenbacher TI 1000-1109 (Class B fuel gas, Type 2 & 3)



Mobil Pegasus™ 1107



Mobil Pegasus[™] 1107 was designed for use in natural gas operation, but can also be used in biogas and sewage gas plants with gas purification, provided that the quality level of natural gas is achieved by the gas treatment. Mobil Pegasus 1107 is a long-life gas engine oil which allows extended oil-change intervals.

- Excellent cleaning and dispersing capacity keeps coking and varnish formation under control
- Helps to reduce oil consumption
- Ensures engine cleanliness even with longer oil change intervals
- Excellent resistance to oxidation and nitration and thermal stability
- Exceptional wear protection properties
- Longer component service life and high running-in protection
- High alkalinity reserve for better engine performance and oil life
- Suitable for catalytic converters

Manufacturers' approvals

Caterpillar Energy Solutions TR 2105, Lube Oils for Gas Engines (CG132, CG170, CG260)

Cummins HSK78G (Natural Gas)

INNIO Jenbacher TI 1000-1108 (Class A fuel gas, Type 9)

INNIO Jenbacher TI 1000-1109 (Class A fuel gas, Type

4B & 4C, extended drain)

INNIO Jenbacher TI 1000-1109 (CAT (catalyst) approved)

INNIO Jenbacher TI 1000-1109 (Class A fuel gas, Type

2 & 3,extended drain)

INNIO Jenbacher TI 1000-1109 (Class A fuel gas, Type 6

all versions, extended drain)

MTU 400 Series (natural gas and propane)

MWM TR 0199-99-2105

MAN M 3271-2

MAN M 3271-5

Bergen Engines AS (former Rolls-Royce Bergen) C-Type

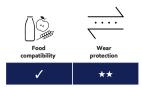
Gas Engines, B 35:40 Gas Engines

Rolls-Royce Bergen K-Type Gas Engines, B 36:45

Gas Engines



Mobil SHC Cibus™ 32,46,68 e 100



Oils for hydraulic applications and compressors in the food and feed industry

- Registered for incidental food contact (H1 registration by NSF)
- The products are almost colourless and odourless
- Their formulation contains no animal ingredients and no allergens from nuts, wheat or gluten
- Low coefficient of friction, resulting in lower fluid friction in the load zone, which can lead to lower power consumption
- Operating temperatures and machine efficiency can be optimised
- Extend the service life of machine parts through good wear protection, outstanding oxidation stability
- Rust and corrosion protection even in humid environments
- Oils from the Mobil SHC Cibus[™] series are compatible with the same sealing materials, paints and components as mineral oils

Mobil SHC Cibus™ 32, 46, 68 meet or exceed the requirements

DIN 51506: 2017-08 VDL DIN 51524-2: 2017-06

Eaton 35VQ25 pump test requirements per Brochure

No. 03-401-2010, Rev 1 FDA 21 CFR 178.3570

Mobil SHC Cibus™ 100 meets or exceeds the requirements

DIN 51506: 2017-08 VDL DIN 51517-2: 2018-09 DIN 51524-2: 2017-06

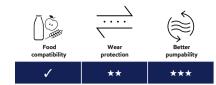
Approvals

Halal Kosher & Parve

Registered to meet the requirements

NSF H1

Mobil SHC Polyrex™ 222



High-performance multi-purpose grease based on a polyurea thickener with synthetic base oils – designed for applications where there is a risk of incidental food contact. Suitable for temperatures from -30 to +170 °C and very humid environments.

- Registred for incidental food contact (H1 registration by NSF)
- Excellent properties at high temperatures
- High resistance under load in rolling bearings
- Excellent water resistance and corrosion protection
- Excellent protection in the presence of water, steam or in slightly acidic or alkaline environments

The Mobil SHC Polyrex[™] Series is compatible with many polyurea greases. However, mixing may lead to loss of H1 status. It is therefore recommended that the system should be completely cleaned before changing to Mobil SHC Polyrex[™] 222 from another grease.

Meets or exceeds the requirements

DIN 51825: 2004-06 - KPFHC2P-30 FDA 21 CFR 178.3570

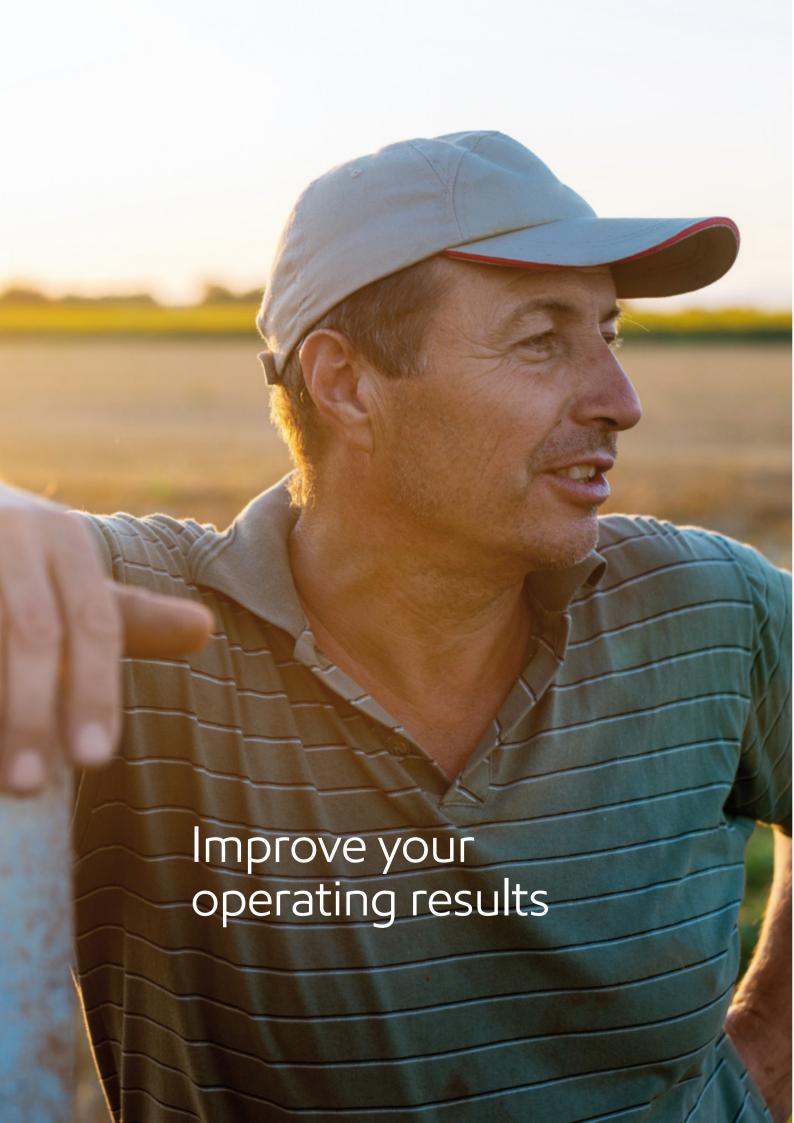
Approvals

Kosher & Parve

Registered to meet the requirements

NSF H1

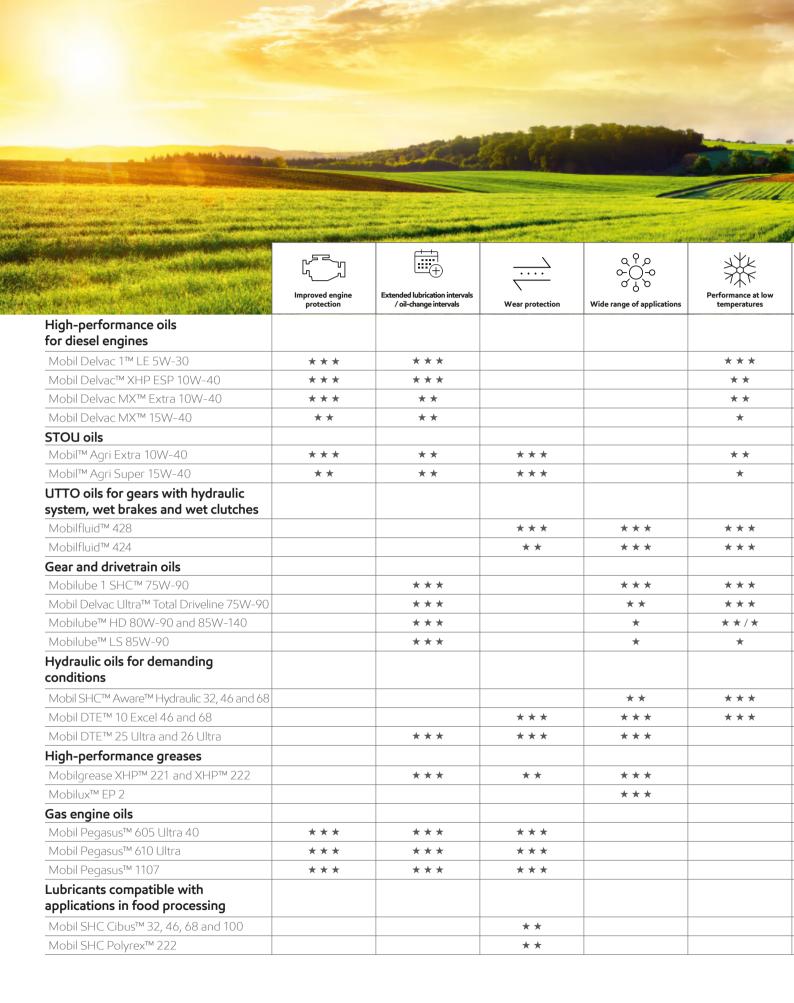




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	Food compatibility							√ √
The state of the s	Biodegradable				***			
Miles May Kara	Gear protection			***	***			
	Suitable for catalytic converters						√ no √	•
	Better pumpability							***
	Suitable for DPF	√ √ no no						

ExxonMobil Petroleum & Chemical, bv Polderdijkweg B-2030 Antwerpen

Presented by the authorised Mobil sales partner (sticker or stamp)



