


A close-up, low-angle shot of a green tractor. The tractor's hood and front fender are visible, with a large, deep-tread rear tire in the foreground. A yellow rectangular text box is superimposed over the center of the image. In the top right corner, the Mobil Delvac logo and tagline are displayed.

Mobil Delvac™
For Long Engine Life

The Mobil range of agricultural lubricants



Mobil lubricants proven both in the laboratory and in the field

Mobil™ has been a global specialist in lubrication for more than a century. It is a global brand, which is now present in almost two hundred countries across the globe, and is associated with strong values such as performance, innovation and expertise.

Lubrication plays a critical role in the proper maintenance of agricultural machinery, such as tractors and combine harvesters. Maintaining equipment in a perfect operating state is essential for being able to obtain your production objectives – in other words, for the efficient running of your farm.

This is why Mobil lubricants are designed to provide the high level of protection that is indispensable for all of your equipment. They can help improve the productivity and efficiency of your agricultural machinery.

Proven performance in agriculture thanks to advanced technology

Mobil lubricants have been proven, both in the laboratory and in the field. They can help you to improve the reliability and usability of your machinery, optimise the performance of your agricultural equipment and reduce your operating costs. For farmers and agricultural contractors, the high performance of the lubricants translates into numerous potential advantages: helping to improve machinery performance, reduce maintenance costs, potentially extending oil change intervals¹ and the protection of equipment over the long term, which result in optimum conservation of the capital invested in operating equipment. In summary, Mobil lubricants contribute to the optimum management of your agricultural equipment. Their outstanding performance is the result of extensive practical experience in the service of the agricultural sector.

The Mobil range of lubricants meets the needs of the main agricultural applications

Agricultural machinery, including tractors and combine harvesters, are developing constantly and require the use of more advanced lubricants. This is why Mobil is constantly developing products, oils or greases that meet or even exceed the main technical requirements of the manufacturers of agricultural equipment.

The result is a comprehensive range of products that meets the requirements of the main agricultural applications. This range comprises lubricants for specific applications as well as multi-purpose oils.

¹ Always consult OEM manuals for proper recommendation and oil drain interval which may depend on, for example, make, model, local variations, fuel S, operating conditions.

Our experts are at your disposal, ready to provide you with advice and to answer any of your questions. For more information, please visit <https://ampol.com.au/fuels-and-oils/lubricants>

Contents

4	Tractor lubrication
6	High-performance oils for diesel engines
10	High-performance UTTO lubricants for transmissions with hydraulic systems, wet brakes and clutches
12	Multi-purpose STOU oils
14	Oils for gearboxes, powered axles and final reduction gears
16	Hydraulic oils: Designed to perform under demanding conditions
18	High-performance multi-purpose greases
20	Mechanised farming equipment
22	Emission reduction technologies: EGR, SCR and DPF processes
23	Mobil lubricants – a comprehensive range to cover all of the lubrication needs for your agricultural machinery



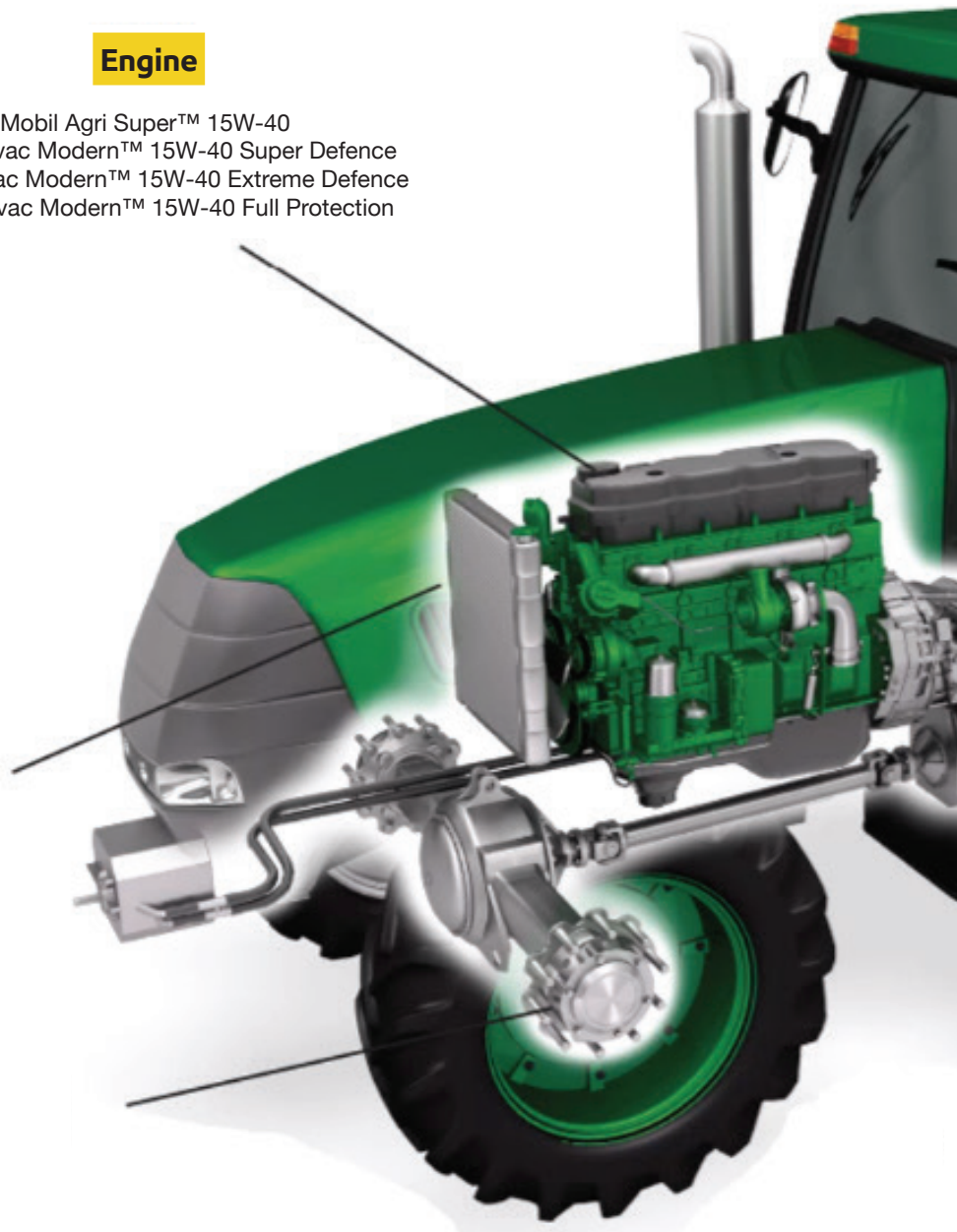
Tractor lubrication

Engine

Mobil Agri Super™ 15W-40
Mobil Delvac Modern™ 15W-40 Super Defence
Mobil Delvac Modern™ 15W-40 Extreme Defence
Mobil Delvac Modern™ 15W-40 Full Protection

Bearings

Mobilgrease™ XHP 222
Mobilgrease™ XHP 462





Hydraulics

Mobil Agri Super™ 15W-40
Mobilfluid™ 424
Mobil DTE™ 20 Ultra Series
Nuto™ Series
Mobil DTE 10 Excel™ Series

Differential and Gear Drives

Mobil Agri Super™ 15W-40
Mobilfluid™ 424

Transmission

Mobil Agri Super™ 15W-40
Mobilfluid™ 424

High-performance oils for diesel engines



Mobil Delvac™ 1 5W-30 Advanced Synthetic

Product description

Mobil Delvac™ 1 5W-30 Advanced Synthetic is an advanced synthetic heavy duty diesel engine oil for long and reliable service.

The goal was to define a product that addresses all features required with modern on-highway truck applications, including those with emission control systems⁴. This top performance product offers unsurpassed oxidation stability¹ which results in engine cleanliness promoting efficient and smooth engine operation. The robustness of Mobil Delvac 1 5W-30 Advanced Synthetic meets or exceeds the longest oil drain intervals defined by major global manufacturers, offering protection during extended oil drains up to 100,000miles².

It was also developed and tested to protect the engine with the use of biofuel components to consider different diesel fuel qualities and future, sustainability related fuel components. The advanced lubricant formulation helps to gain fuel economy benefits in modern engine applications³.

Meets

ACEA E6, E7, E9
API CK-4, CJ-4 /SN
JASO DH-2
DAF Extended Drain
CATERPILLAR ECF-3

Approvals

Detroit Fluids Specification 93K222
Deutz DQC IV-18 LA
MACK EOS-4.5
MB228.51/MB 228.52
MTU Oil Category 3.1
Renault Trucks RLD-3
VOLVO VDS-4.5

¹ Based on PC-11 industry test data.

² Please refer to the owner's handbook for OEM application requirements and oil drain intervals for your vehicle or equipment.

³ Compared to an SAE 15W-40 engine oil. Actual savings are dependent on vehicle engine type, outside temperature, driving conditions, and your current engine oil viscosity.

⁴ A fuel economy evaluation was conducted using two Volvo FM440 Euro V trucks, loaded to 75% Gross Vehicle Weight (circa 44,000 kg). Testing was conducted on track at the Millbrook Proving Ground, Ltd. in the United Kingdom. Statistically significant fuel economy benefits were observed in the Volvo trucks, when comparing Mobil Delvac 1 LE 5W-30 to a mineral 15W-40 engine oil, with an average fuel economy gain of 1.8% for highway driving conditions. Corrections were applied when changes in test environment had a statistically significant impact on fuel economy. Fuel economy improvements are

Mobil Delvac™ MX ESP 10W-30

Extra high-performance diesel engine oil

Mobil Delvac™ MX ESP 10W-30 delivers outstanding performance in modern, high output, low emission engines including those with Exhaust Gas Recirculation (EGR) and Aftertreatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs). Fully backwards compatible, Mobil Delvac MX ESP 10W-30 will also deliver excellent performance in older conventional engines.

- Outstanding protection against oil thickening, deposits, sludge and oil degradation
- Excellent anti wear and anti scuff properties
- Low ash, sulphur and phosphorus levels
- Stay in grade shear stability / low volatility

Meets

API CK-4, CJ-4/SN
ACEA E9,E7
Caterpillar ECF-3
Cummins CES 20086/20081
Isuzu DEO (w/DPD equipped vehicles)
JASO DH-2

Approvals

Detroit Fluids Specification 93K222/93K218
MACK EO-O Premium Plus
MACK EOS-4.5
MB-Approval 228.31
RENAULT TRUCKS RLD-3
Volvo VDS-4.5



High-performance oils for diesel engines



Mobil Delvac Modern™ 15W-40 Full Protection

Suitable for engines equipped with DPF (Diesel Particulate Filters)

Mobil Delvac Modern™ 15W-40 Full Protection is a diesel engine oil, with a low ash content, made using highly refined mineral oils and a high-performance additive system.

It helps to extend the lifetime of high-power, low emission older and modern engines, including those equipped with exhaust gas recirculation systems (EGR), Diesel Particulate Filters (DPF) and Diesel Oxidation Catalysts (DOC).

- Excellent resistance to corrosive wear (alkalinity reserve) and to abrasive wear (soot control)
- Contributes to prolonged engine life
- Outstanding resistance to oxidation and limited formation of high-temperature deposits
- Helps to increase the intervals between oil changes to improve oil consumption
- Meets the requirements of the latest API petrol and oil class, and is backwards compatible with older conventional engines
- Enables the rationalisation of engine oil storage to simplify the management of mixed fleets of vehicles and agricultural equipment

Meets or exceeds

API CK-4, CJ-4/SN
ACEA E9, E7
Caterpillar ECF-3
JASO DH-2
Cummins CES 20086/20081

Approvals

ALLISON TES 439
Detroit Fluids Specification 93K222, 93K218
Deutz DQC II-10 LA
Mack EO-S 4.5/EO-O Premium Plus/EO-N Premium
MB-Approval 228.31
Plus 03
Renault Trucks RLD-3
Volvo VDS-4.5/VDS-4/VDS-3

**Mobil Delvac Modern™ 15W-40
Super Defense**

Extra high-performance diesel engine oil

Mobil Delvac Modern™ 15W-40 Super Defense promotes extended engine life and delivers excellent lubrication of today's diesel engines, including turbo-charged equipment. Extra high performance has been proven in the field in a wide variety of industries, applications and mixed fleets.

Meets or exceeds
API CI-4/SL ACEA E7 JASO DH-1 Cummins CES 20078/20077/20076 Caterpillar ECF-2
Approvals
Detroit Fluids Specification 93K215 Mack EO-N/EO-M Plus MB-Approval 228.3 MTU Oil Category 2 Renault Trucks RLD-2 Volvo VDS-3
Recommended for use in applications requiring:
Cummins CES 20072/20071 Mack EO-M MAN M 3275-1 Renault Trucks RLD Volvo VDS-2



High performance UTTO lubricants for transmissions with hydraulic systems, wet brakes and clutches



Mobilfluid™ 424

Mobilfluid™ 424 is an extra high-performance multipurpose tractor oil, developed to meet or exceed the requirements of the majority of agricultural equipment manufacturers. This oil was designed for the lubrication of hydraulic or hydrostatic systems, power steering, differentials and transmissions, with or without wet brakes and clutches.

Its balanced formulation makes it suitable for use in a wide range of operating conditions and environments.

This oil is particularly suitable for reducing noise that may occur with wet disc brakes.

- Very high viscosity index
- Excellent fluidity at low temperatures
- Good anti-wear and extreme pressure properties
- Excellent protection against rust and corrosion
- Good thermal stability and high resistance to oxidation
- Optimised friction properties for effective operation of wet brakes and clutches

Meets or exceeds

ASTM D6973 (Eaton 35VQ) vane pump test
KUBOTA UDT
CATERPILLAR Multipurpose Tractor Oil (MTO)

Approvals

VOLVO WB-101
ZF TE-ML 03E / 05F / 17E

Recommended for use in applications requiring:

AGCO Powerfluid 821 XL
Allison C-4
API GL-4
CATERPILLAR TO-2
CNH MAT 3505 / 3525
DENISON UTTO/THF
FORD ESN-M2C134-D
FORD New Holland FNHA-2-C-201.00
JICASE MS 1204 / 1205 / 1206 / 1207 / 1209
JOHN DEERE JDM J20C
MASSEY FERGUSON CMS M1135 / M1141
New Holland WB NWH 410B



Multi-purpose STOU oils

Mobil Agri Super™ 15W-40

Mobil Agri Super™ 15W-40 is a high-performance multi-purpose mineral oil intended for the lubrication of agricultural tractors. It is suitable both for the lubrication of diesel engines, hydraulic systems and transmissions, with or without wet brakes and clutches.

- High alkalinity reserve (TBN)
- Good protection of equipment against wear, rust and corrosion
- High thermal stability and good resistance to oxidation
- Versatility and flexibility of use due to its multifunctional character
- Simplification and rationalisation of lubricant stocks

Builder approvals

ZF TE-ML 06B / 07B

Recommended by ExxonMobil for use in applications requiring

Allison C-4 (Agriculture applications only)
API CF-4/CF/SF
API GL-4
CATERPILLAR TO-2
Ford ESN-M2C159-B
JOHN DEERE JDM J27D
MASSEY FERGUSON CMS M 1139, 1144, 1145





Oils for gearboxes, powered axles and final reduction gears



Mobilube™ LS 85W-90

- Mobilube™ LS 85W-90 is a high-performance oil for no-slip and limited slip differentials. Friction properties adapted to limited slip differentials.
- Compatibility with gaskets
- Good thermal stability and high resistance to oxidation
- Excellent low temperature properties to improve protection during assisted cold start-ups
- Very good protection against wear, rust and corrosion
- Extend the lifetime of lubricated components

Meets or exceeds

API GL-5

Builder approvals

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

Mobilube™ HD PLUS 80W-90 and 85W-140

Mobilube™ HD Plus 80W-90 and 85W-140 are extra high performance commercial gear lubricants formulated from select base oils and an advanced additive system.

These lubricants are engineered for performance in heavy-duty commercial transmissions, axles, and final drives where extreme pressures and shock loading are expected.

They provide:

- excellent chemical and thermal stability at elevated bulk oil temperatures,
- good performance at low temperatures,
- have demonstrated good rust protection resulting from water contamination and wet conditions.

Meets or exceeds

API GL-5
API MT-1
Scania STO 1:0

Builder approvals

Volvo 97321

Quality level but not approved

MIL (US) MIL-PRF-2105E

Hydraulic oils: Designed to perform under demanding conditions

Mobil Univis™ N 46 and N 68

Mobil Univis™ N 46 and N 68 are high-quality anti-wear hydraulic mineral oils, produced to respond to the requirements of a large number of hydraulic systems.

- Good demulsibility
- Good fluidity at low temperatures
- High viscosity index and good resistance to shear
- Rapid de-aeration power and good prevention of foaming
- Excellent protection against rust and corrosion
- Reduction in maintenance costs
- Extend the lifetime of lubricated components

Meets or exceeds

DIN 51524-3 2006-9
ISO L-HV (ISO 11158, 1997)

Builder approvals

Dension HF-0, HF-1, HF-2

Recommended by ExxonMobil for use in applications requiring

Eaton I-286-S
Eaton M-2950-S



Mobil DTE 10 Excel™ 46 and 68

Mobil DTE 10 Excel™ oils are high-performance anti-wear hydraulic oils, especially designed to meet the needs of modern hydraulic systems operating at high pressure. Zinc-free anti-wear system provides a high degree of protection.

Mobil DTE 10 Excel oils are formulated so that they offer balanced performances in numerous applications, including outstanding resistance to oxidation and exceptional thermal stability. This promotes a long service life for the oil, while helping to reduce deposit formation. Mobil DTE 10 Excel oils are particularly suitable for hydraulic systems using high flow and high pressure pumps, while operating under demanding conditions.

- Excellent hydraulic efficiency
- High viscosity index, outstanding shear stability
- Resistant to oxidation and thermal stability
- Good compatibility with elastomer seals and hoses
- Anti-wear properties
- Very good separability from air
- Compatible with multiple metals

(Mobil DTE 10 Excel oils are also available in the following ISO VG grades: 15, 22, 32, 100 and 150.)

Meets or exceeds

DIN 51524-2, 51524-3
JCMAS HK VG46W (ISO 46)
KRAUSS-MAFFEI Hydraulic Oil (ISO 46)
VN 108 4.3.3 Aug 2014 (ISO 68)
ISO L-HV (ISO 11158:1997)

Builder approvals

ARBURG Hydraulic Fluid (ISO 46)
BoschRexroth Fluid Rating List 90245
DENISON HF-0
FRANK MOHN Framo Hydraulic Cargo Pumping System (ISO 46)
Fives Cincinnati P-69 (ISO 68), P-70 (ISO 46)
HOCNF Norway-NEMS, Black
ORTLINGHAUS-WERKE GMBH ON 9.2.10
STROMAG AG TM-000 327 (ISO 68)

Recommended by ExxonMobil for use in applications requiring

EATON VICKERS 694

Nuto™ 46 and 68

Nuto™ H Series oils are good quality anti-wear hydraulic oils intended for industrial and mobile service applications, subjected to moderate operating conditions and requiring anti-wear lubricants.

- Good anti-wear performance helps reduce pump wear and prolonging pump life
- Corrosion protection helps reduce the effects of moisture on system components
- Filterability to prevent filter blockage even in the presence of water

Meets or exceeds

DIN 51524-2:2006-09
ISO L-HM (ISO 11158:1997)

Builder approvals

DENISON HF-0

Also available in the following ISO
VG Grades: 32, 100, & 150

High-performance multi-purpose greases

Mobilith SHC™ 220

Mobilith SHC™ is an extreme-pressure lithium complex synthetic grease, coloured red. This top-quality grease is designed for use in extreme conditions, notably at very low winter temperatures and at high temperatures, and under heavy load during severe and prolonged operation. It is suitable for a wide range of applications, in particular wheel hubs and bearings, as well as for the articulations and other components of the chassis.

- Outstanding performance at high and low temperatures
- 77 Large range of application temperatures (from -40° to +150°C), excellent protection at high temperatures plus low starting torque at low temperatures
- Excellent structural stability in the presence of water
- Very high protection against wear, rust and corrosion
- Maximised intervals between greasing and maximised bearing service lives
- Possible reduction in downtimes and maintenance costs

Meets or exceeds

DIN 51825:2004-06 - KP HC 2 N -30

Oxidation resistance

In laboratory tests, Mobilith SHC 220 grease demonstrates more than three times the oxidation resistance as a simple lithium mineral oil grease. Oxidation resistance contributes to long lubricant life and helps minimize varnish and sludge deposits.

Mobilgrease™ XHP 222 and 222 Special

Mobilgrease™ XHP 222 and 222 Special are extreme-pressure lithium complex mineral greases, highly adhesive and offering extremely high performance. They are suitable for a wide range of agricultural applications even when the operating conditions are extremely demanding.

Mobilgrease XHP 222 is particularly suited to the greasing of bearings and wheel hubs, as well as for the articulations and other components of the chassis.

- Very good extreme pressure and anti-wear properties for protection of equipment, even under severe usage conditions
- Structural cohesion ensuring excellent adhesion to improve leak-tightness against contaminants such as dust and water
- Excellent resistance to washing off by water
- High-level protection against rust and corrosion
- Enhance mechanical resistance ensuring excellent in-service behaviour
- Good thermal stability and high resistance to oxidation at high temperatures
- Possible to extend lubrication intervals between greasing and reduce maintenance costs

Meets or exceeds

222 DIN 51825:2004-06 - KP 2 N -20

Approvals

222 Fives Cincinnati P-64

Mobilux™ EP2

Mobilux™ EP2 is a standard mineral grease standard mineral grease with lithium thickener, suitable for low-load agricultural machinery applications.

- Extreme pressure and anti-wear properties under moderate loads
- Good protection against rust and corrosion
- Protection of equipment under normal or moderately severe operating conditions

(Greases belonging to the Mobilux EP family are available in a range of grades extending from grade NLGI 0 to grade 3, with oil viscosities at 150 cSt at 40°C.)

Meets or exceeds

DIN 51825:2004-06 - KP 2 K -20



Mechanised farming equipment

Mobil™ Extra 2T



Mobil™ Extra 2T is a semi-synthetic high-performance 2-stroke oil, developed to satisfy the operating requirements of quad bikes, mechanised farming machinery, chainsaws, lawnmowers, brush cutters, etc.

Mobil Extra 2T is prediluted to make mixing with petrol easier.

- Contributes to motor longevity
- Limited exhaust fume emissions
- Prevents pre-ignition
- Excellent protection against wear and corrosion
- Good thermal stability and high resistance to oxidation
- Helps to reduce deposit formation

Meets or exceeds

API TC
ISO E-GC
JASO FC/FD

Mobil Delvac Legend™ 1300 Series

Mobil Delvac Legend™ 1330 & 1340 are a Monograde diesel engine oil with a balanced additive system, balanced additive system, turbo-charged protection. High-performance, monograde diesel engine oil.

Tailor-engineered for performance in intercooled, turbo-charged engines operating under severe on-and-off highway conditions. Formulated from advanced technology base oils and a balanced additive system.

Benefits

Long engine life
Wear protection
Excellent protection against ring sticking
Long-term deposit/wear control

Recommended for use in applications requiring:

API CF/CF-2/SF



Emissions reduction technologies: EGR, SCR and DPF processes

NOx reduction

EGR

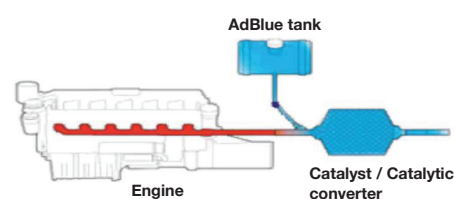
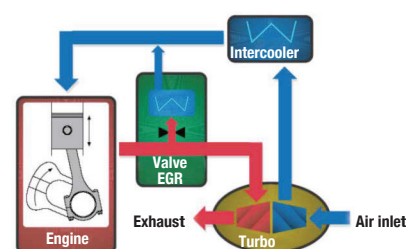
(Exhaust gas recirculation):

Reduction in the formation of NOx (nitrogen oxides) by means of the recirculation of a controlled quantity of exhaust gas, which is cooled and then reintroduced to the combustion chamber.

SCR

(Selective Catalyst Reduction):

The NOx (nitrogen oxides) are reduced to nitrogen and water vapour by the action of a catalyst made of an aqueous solution of urea commercially referred to as AdBlue. This solution, stored in a special tank, is injected into the exhaust circuit in order to initiate a reaction in the catalytic converter. The system concerned is an exhaust gas post-treatment system.



Particulates reduction

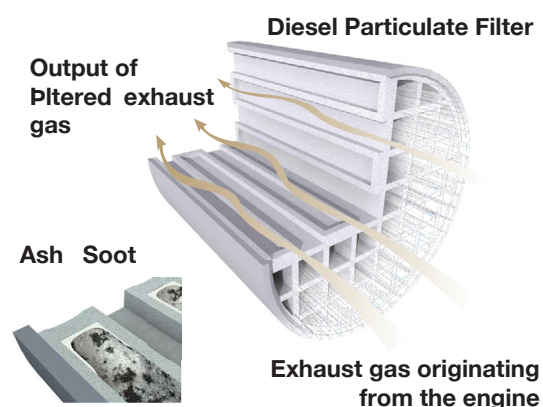
DPF/FAP

(Diesel Particulate Filter)

The catalytic filter retains the soot particles that are subsequently burned to produce carbon dioxide. Over time, the accumulation of ash in the filter may necessitate filter replacement.

The implementation of various standards has led to the development of new lubricants (low SAPS) with a low content of substances forming sulphate, phosphorus and sulphur ashes.

Indeed, certain elements of the post-treatment system are sensitive to the presence of these chemical substances present in the lubricant and the fuel. This leads to the poisoning and clogging of the catalysts and particulate filters.



Glossary

Nitrogen oxides (NOx): Emitted during the high-temperature combustion of fuels, nitrogen oxides contribute to atmospheric pollution. In particular, they contribute to the greenhouse effect and may also have detrimental consequences for public health.

Particulates (PM: Particulate Matter): This refers to soot particles, the residues of the incomplete combustion of heavy hydrocarbons originating from diesel engines. They are suspected to be toxic at high concentrations.

AdBlue: Commercial name for synthesised urea in aqueous solution with a concentration of 32.5%. This value corresponds to the correct concentration, necessary for vehicles equipped with an exhaust gas post-treatment system of SCR type.

Low SAPS: Term used to describe lubricants compatible with exhaust gas post-treatment systems, in particular diesel particulate filters. These lubricants contain low concentrations of sulphate, phosphorous and sulphur ash forming constituents.



Mobil – a comprehensive range to cover all of the lubrication needs for your agricultural machinery

Oils for diesel engines

Mobil Delvac 1™ 5W-30 Advanced Synthetic
 Mobil Delvac™ MX ESP 10W-30
 Mobil Delvac Modern™ 15W-40 Extreme Defense
 Mobil Delvac Modern™ 15W-40 Full Protection
 Mobil Delvac Modern™ 15W-40 Super Defense
 Mobil Delvac XHP™ ESP 10W-40
 Mobil Delvac XHP™ Extra 10W-40
 Mobil Delvac Legend™ 1330
 Mobil Delvac Legend™ 1340

Lubricants for transmissions with hydraulic systems, wet brakes and clutches

Mobilfluid™ 424

Multi-purpose greases

Mobilith SHC™ 220
 Mobilgrease™ XHP 222 / XHP 222 Special
 Mobilux™ EP 2

Multi-purpose oils

Mobil Agri Super™ 15W-40

Oils for gearboxes, powered axles and final reduction gears

Mobilube™ HD Plus 80W-90
 Mobilube™ HD Plus 85W-140
 Mobilube™ LS 85W-90 (limited slip differentials)

Please note:

Product information in this brochure is correct at time of publication. Standards and specifications may change. Please consult the product data sheets available from our website www.mobildelvac.com for more up-to-date information.

Always check in the maintenance manual to ensure the standards and specifications of the lubricants selected effectively meet the manufacturers' requirements.

Moreover, the drainage intervals must always be determined and appropriate dependent on the application.

All the recommendations that are presented in this document are given for information only and are not in any way binding on the manufacturer. The customer is responsible for ensuring that the product selected is suitable for the purpose for which it is to be used. If in doubt, please consult the maintenance manual supplied by the manufacturer.

Mobil oils are formulated for industrial diesel engines used in sectors such as agriculture, road transport or construction. Worldwide, many manufacturers choose Mobil Delvac.

Due to continual research and development, product claims and profiles are subject to change. For updated information please contact the Ampol Technical Solutions on 1300 364 169 or via TechnicalSolutions@ampol.com.au



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For more information visit us at <https://ampol.com.au/fuels-and-oils/lubricants>
Product information correct at the time of publication.

Mobil products described in this document are also available from your authorised distributor at the following address:

Distributor's stamp