

eni.com

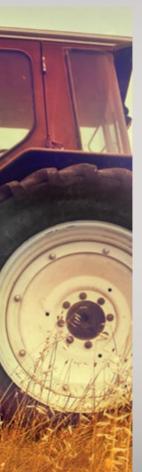
eni has developed a complete line of lubricants for agricultural machinery, on land vehicles, work vehicles and equipment meeting the highest performance standards. eni lubricant lines include traditional technology products employing reliable, triedand-tested formulations, as well as cutting edge technologies suitable for modern vehicles fitted with emission reducing exhaust gas post-treatment systems.

A line of lubricants has been specifically designed to provide better fuel economy, topnotch performance in any weather condition, eco-friendliness and long-lasting performance.

eni offers a series of specialized products as multifunctional oils, coolants, hydraulic fluids and greases to meet the needs of the majority of agricultural and work machinery.









engine oils

High technology product line designed to meet all off-highway vehicles' needs, complying with the most stringent performance specifications set by leading manufacturers. The line also includes lubricants specifically designed for new generation EURO V engines fitted with exhaust gas aftertreatment systems that require a special additive formulation to maintain their effectiveness.



eni i-Sigma Performance E4 10W-40

- Synthetic technology oil ideal for machineries operating under high loads.
- Maximum protection of engine components from wear and deposits.
- Suitable for extended oil drain intervals.

SPECIFICATIONS

ACEA E4 MB-Approval 228.5 MAN M3277 MTU Type 3

eni i-Sigma Performance E7 15W-40

- High performance lubricant for a wide range of engine types.
- Allows extended drain oil intervals.
- Maximum protection of engine components from wear and deposits.

SPECIFICATIONS

API CI-4/CH-4/SL ACEA E7, E5, E3, B3 MB-Approval 228.3 MAN M3275-1 MTU Type 2 Volvo VDS-3 Deutz DOC III-10 CAT ECF-la

eni i-Sigma Top 5W-30

- Excellent fuel-saving characteristics and cold start qualities.
- Ideal for very extended oil drain intervals.

SPECIFICATIONS

API CI-4 ACEA E4. E7 MB-Approval 228,5 MAN M3277 MAN M3377 MTU Tupe 3 Volvo VDS-3 Mack EO-M Plus Deutz DOC IV-10 CAT ECF-2 Renault RXD, RLD-2, RLD

eni i-Sioma Top 10W-40

- Synthetic technology lubricant ideal for engines operating in extremely severe working conditions.
- Allows maximum oil drain intervals.
- Excellent wear resistance and piston cleaning properties.

SPECIFICATIONS

API CF ACEA E4, E7 MB-Approval 228.5 MAN M3277 MAN M3377 MTU Type 3 Volvo VDS-3 Deutz DOC III-10 Renault RXD Scania LDF-3 Cummins CES20072 Voith Class A ZF 04C DAF extended drain

Top synthetic lubricant ideal for extremely severe working conditions.

eni i-Sigma Top MS 5W-30

- Top sunthetic oil suitable for Euro V and previous version engines.
- Fuel saving properties and excellent cold start qualities.
- Outstanding detergent and protection properties.

SPECIFICATIONS

API CJ-4/SN ACEA E6, E7, E9 MB-Approval 228.51, MB 228.31 MAN M3477 M3677 M3271-1 MTU Type 3.1 Volvo VDS-4 Mack EO-M plus, EO-N, EO-O PP Deutz DOC IV-10LA JASO DH-2 CAT ECF-3 Renault RXD, RLD-3, RLD-2, RGD

eni i-Sigma Top MS 15W-40

- High performance oil for Euro III to Euro V engines.
- Suitable in extremely severe working conditions.
- Capable of extended oil drain intervals.

SPECIFICATIONS

JAPI CJ-4/SM ACEA E9 MB-Approval 228.31 MAN M3575 MTU Type 2.1 Volvo VDS-4 Mack EO-O PP Deutz DOC III-10 LA CAT ECF-1a, ECF-2, ECF-3 Renault RLD-3 Cummins CES 20081 Detroit Diesel 93K218

trasmission oils

Innovative product line suitable for use in classic transmissions as well as in most modern driveline systems. The line complies with a wide range of performance specifications issued by the leading international organizations and required by most tractors and work machineries operating today.



eni Rotra HY 80W-90

- Extreme pressure oil for hypoid gears, typical use in final drives and power take-off
- Antiwear and anticorrosion properties.
- High protection from rust and foaming.

SPECIFICATIONS

API GL-4 MIL-L-2105 level MAN 341 Tup E1, Z2 ZF TE-ML 2B, 16A, 17A, 19A VW TL 726 (level) Liebherr Cranes MB 235.1 level

eni Rotra MP 80W-90

- Extreme pressure oil for severely loaded hupoid gears, tupical use in final drives and power take-off.
- It protects from corrosion and wear, keeping all lubricated components in perfect conditions

SPECIFICATIONS

API GL-5 MIL-L-2105D FORD M2C 105A FORD M2C-154A FORD SOM-2C-9002A/9008A/9101A CHRUSLER MS-5644 GM MS 9985290 MAN 342 Tup M1 OPEL B 0401010 V/W/TI 727/726 VOLVO 97310/97313/97314 ZF TE-ML 16B, 17B, 19B, 21A Liebherr Cranes

eni Rotra MP/S 85W-90

- Extreme pressure oil specifically dedicated to applications where antistick-slip properties are required.
- Particularly suitable for lubrication of oil wet brakes and limited-slip differentials.

SPECIFICATIONS

API GL-5 FORD M2C-154A FORD M2C-105A MIL-L-2105D ZF TE-ML 05C, 12C, 16E, 21C

eni Rotra MP/DB 85W-90

• Extreme pressure oil for lubrication of Daimler Chrysler transmissions. Excellent anti-wear and oxidation stability properties.

SPECIFICATIONS

API GL-5 MAN 342 Tup M1 MB 235.0 MIL-L-2105D ZF TE-ML 16C, 17B, 19B, 21A VW TL 727 Liebherr Cranes

eni Rotra MP/DB Synth 75W-90

- Fully synthetic high performance oil for lubrication of Daimler Chrysler transmissions
- Outstanding anti-wear and oxidation stability properties.
- Maximum protection of gears for best performances and long life use.

SPECIFICATIONS

API GL-5 MB 235.8 MAN 342 Tup S1

eni Rotra LSX 75W-90

- Fully synthetic high performance transmission oil for universal use.
- It provides long term protection of gears
- Outstanding oxidation stability and antiwear properties.

SPECIFICATIONS

API GL4, GL5, MT-1 MAN 341 Typ E3, Z2 MAN 342 Tup M3 MIL-PRF-2105 E MB 235.8 level MACK GO-J SAE J 2360 SCANIA STO 1:0 ZF TE-ML 02B, 05B, 07A, 08, 12B, 16F, 17B, 19C, 21B Eaton Europe Meritor 076-N

and is suitable for extended oil drain intervals.

eni Rotra Truckoear 80W-90 - 85W-140

- Special oils suitable for use in gearboxes and axles of work machineries.
- They provide excellent thermal and oxidation stabilitu for maximum protection even under severe load and temperature conditions.

SPECIFICATIONS 80W-90

API GL4, GL5, MT-1, PG-2 MIL-PRF-2105E SAE J 2360 MB 235.0 level SCANIA STO 1:0 ZF TE-ML 2B 5A 7A 12E 16B 17B 19B 21A Liebherr Cranes MAN 341 Tup E2, Z2 MAN 342 Tup M2 NATO 0-226

SPECIFICATIONS 85W-140

API GL4 GL5 MT-1 SAE J 2360 MIL-L-2105D MIL-PRF-2105E SCANIA STO 1:0 ZF TE-ML 5A, 7A, 12E, 16D, 21A Liebherr Cranes



multifunctional oils

Multi-purpose products designed for lubrication of a wide range of devices fitted on modern tractors and work machineries. They are generally grouped into two categories:

U.T.T.O. (Universal Tractor Transmission Oil): Lubricants potentially suitable for use in all auxiliary equipments, engine excluded.

S.T.O.U. (Super Tractor Oil Universal): Lubricants potentially suitable for use into the engine and in all the auxiliary equipments fitted.



UTTO multifunctional oils	
eni Multitech	
JD/F 10W-30	

- UTTO lubricant for lubrication of transmission and hudraulics combined sustems.
- Low cold viscosity for ensuring easy start even in rigid climates.
- Suited also for lubrication of wet brakes axles.

SPECIFICATIONS

API GL-4 CAT TO-2 ALLISON C-4 JOHN DEERE JDM J 20C MASSEY FERGUSON M1135, M1141, M1143, 1145 KUBOTA UDT FLUID KOMATSU (KES 07.866) CASE New Holland MAT 3525 CASE MS 1207 1210 FORD ESN-M2C86-B FORD ESN-M2C86-C FORD ESN-M2C134-D FNHA-2C-201 **VCE-WB101**

API GL-4 FORD ESEN M2C-86B FORD ESEN M2C-134 B/C/D J.I. CASE MS 1205-1206-1207 1209 MASSEY FERGUSON M 1135-1141-1143-1145 ALLISON C-4 CAT TO-2 New Holland FNHA-2C-201.00 ZF TE-ML 03E, 05F, 06K, 17E, 21F CARRARO trasmissioni

SPECIFICATIONS

eni Multitech

THT 15W-30

operating.

axles.

ZF TE-ML 03E, 06K, 17E level

STOU multifunctional oils

eni Multitech 10W-40

• STOU lubricants suitable for use in all devices (engine, transmission, hydraulics, wet brakes, power take-off and power steering).

SPECIFICATIONS

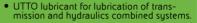
APLCE-4/SE ACEA E2 API GL-4 ALLISON C-4 CAT TO-2 JDM J 27 ZF TE-ML 06B, 06D, 07B MF M-1144-1145 FORD M2C159-B

eni Multitech 10W-30

• STOU lubricants suitable for use in all devices

SPECIFICATIONS

API CF-4/SF ACEA E2 API GL-4 ALLISON C-4 CAT TO-2 JDMJ 27 ZF TE-ML 06B, 06D, 07B MF M-1139-1144 1145 FORD M2C159-B



It contains high quality antiwear additives for better protection and correct systems

• Suited also for lubrication of wet brakes

eni Multitech THT/C 20W-30

- UTTO lubricant suitable for lubrication of transmission and hudraulics combined systems.
- Excellent gear protection and antifoam properties.
- Suited also for lubrication of wet brakes axles.

SPECIFICATIONS

API GL-4 FORD M2C-86B FORD M2C 134 B/C MASSEY FERGUSON M-1135 CARRARO approved

eni Multitech 15W-50

 STOU lubricants suitable for use in all devices (engine, transmission, hydraulics, wet brakes, power take-off and power steering).

SPECIFICATIONS

API CF-4/SF ACEA E2 API GL-4 ALLISON C-4 CAT TO-2 JDM J 27 MB 228.1 w MF M-1144-1145 ZF TE-ML 06B 07E FORD M2C159-B FENDT VARIO

(engine, transmission, hydraulics, wet brakes, power take-off and power steering).



multifunctional oils

eni Multitech CT 10W

- Special multifunctional lubricants designed to meet the severe technical requirements by Caterpillar.
- It protects powershift transmission for best performances over all its technical life and eliminate brake chatters.

SPECIFICATIONS

CAT TO-4 ALLISON C-4 ZF TE-ML 03C level KOMATSU KES 07.868.1 DANA Powershift transmissions Vickers 35 VQ 25

eni Multitech CT 30

- Special multifunctional lubricants designed to meet the severe technical requirements by Caterpillar.
- It protects powershift transmission for best performances over all its technical life and eliminate brake chatters.

SPECIFICATIONS

CAT TO-4 ALLISON C-4 ZF TE-ML 03C 07F KOMATSU KES 07.868.1 DANA Powershift transmissions

eni Multitech CT 60

- Special multifunctional lubricants designed to meet the severe technical requirements by Caterpillar.
- It protects powershift transmission for best performances over all its technical life and eliminate brake chatters.

SPECIFICATIONS

CAT TO-4





eni Multitech CT 50

- Special multifunctional lubricants designed to meet the severe technical requirements by Caterpillar.
- It protects powershift transmission for best performances over all its technical life and eliminate brake chatters.

SPECIFICATIONS

CAT TO-4 ALLISON C-4 KOMATSU KES 07.868.1 EATON





coolants

Special ethylene glycol-based coolant line recommended for an outstanding protection of the cooling circuits fitted on modern tractors and work machinery. The special formulations adopted guarantee heat exchange efficiency into the radiator ensuring safe engine operation even in severe operating conditions. All coolants are environmentally friendly since they are formulated without Nitrites, Ammines and Phosphates (N.A.P. free).

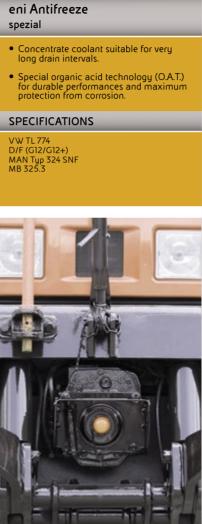


eni Antifreeze olus

 Concentrate coolant suitable for extended drain intervals formulated with organic acids and mineral inhibitors (hybrid technology).

SPECIFICATIONS

VW TL 774 C MAN Tup 324 NF MB 325.0





eni Antifreeze

ready

• Ready-to-use pre-diluted coolant suitable for extended drain intervals.

SPECIFICATIONS

VW TL 774 C MAN Typ 324 NF MB 325.0



hydraulic fluids

Full range lubricants for excellent hydraulic and hydrodynamic performance. Available in several lines and viscosimetric gradations, these lubricants match all demands of work and agricultural machinery. The choice of the fluid depends on the type of use, on the operating conditions and on the characteristics of the components of the hydraulic system.



eni Arnica

• Superior quality "low-zinc" mineral antiwear hydraulic oils, with a very high viscosity index, developed to satisfy the needs of modern oleodynamic applications that operate in the severest conditions.

SPECIFICATIONS

ISO L- HV DIN 51524 teil 3 HVLP EATON VICKERS M-2950 LINDE SUNSTRAND REXROTH RE 90220-1/11.02 Parker Denison HF-0 Approval Fives Cincinnati P-68, P-69, P-70

eni Arnica S

- Hydraulic fluids formulated from synthetic esters bases, characterised by a particularly high viscosity index and applications exposed to fire danger.
- Additionally, they are biodegradable and that may pollute the environment.

SPECIFICATIONS

ISO-L-HFDU ISO-L-HEES

eni Oso

- High quality mineral-based "low-zinc" hydraulic oils offering excellent antiwear, demulsivity and filtration properties.
- They are designed as functional oils for all hydraulic systems and applications.

SPECIFICATIONS

ISO L- HM DIN 51524 t.2 HLP Fives Cincinnati P-68, P-69, P-70 LINDE Parker Cincinnati HF-0 Level SUNSTRAND EATON VICKERS M-2950 REXROTH RE 90220-1/11.02

an extremely high flash point, properties which make these oils suitable for use in

thus suitable where there is a risk of leaks.



eni Arnica DV 46

- Mineral-based hydraulic oil, extremely high viscosity index and low pour point, with excellent deterging and antioxidant properties.
- Product is suitable for use in heavu machinery hydraulic circuits.

SPECIFICATIONS

ISO-L-HV DIN 51524 t.3 HVLP-D



greases

eni offers a wide range of greases meeting all application needs. Greases for special applications at extremely low temperatures and heavy loads are also available.



eni Grease MSX 2/460

- Complex lithium synthetic base grease (PAO) containing a high percentage of molybdenum disulfide that ensures improvement of E.P. properties of additives.
- Specifically designed for the effective lubrication and protection of all types of bearings, gears and sections operating at low speed, heavy load and in wet environments. Recommended temperature use: -40°C/+190°C.

SPECIFICATIONS

ISO-L-XDFHB 2 DIN KPFHC 2R -40

eni Grease LC 2

- Multi-purpose mineral-based lithium complex grease containing anti-rust, additives
- Designed to suit applications operating at high temperatures and extreme pressure. Recommended temperature use: -20°C/+150°C.

SPECIFICATIONS

ISO-L-XBDHB 2 DIN KP 2N -20

eni Grease MU EP 0

- Gellow-brown lithium and oil based mineral greases containing E.P. (Extreme Pressure) additives.
- They are suitable for lubrication of guides. plain bearings, heavily loaded ball and roller bearings at high load and average temperatures. Recommended temperature use: -20°C/+120°C

SPECIFICATIONS

ISO-L-XBCHB 0 ISO-L-CKG 0 **DIN KP 0K -20** DIN GP 0K

eni Grease MU EP 1

- Gellow-brown lithium and oil based mineral greases containing E.P. (Extreme Pressure) additives.
- They are suitable for lubrication of guides. plain bearings, heavily loaded ball and roller bearings at high load and average temperatures. Recommended temperature use: -20°C/+120°C

SPECIFICATIONS

ISO-L-XBCHB1 ISO-L-CKG1 DIN KP 1K -20 DIN GP 1K

antioxidant and F.P. (Extreme Pressure)

eni Grease SM 2

- Greu-black lithium and oil based mineral grease, containing molybdenum disulfide, suitable for lubrication of bearings and constant velocity joints subjected to extreme mechanical loading and thermal stresses, including roller bearings where the geometrical configuration results in a heavy wear problem.
- Can be used on worksites as a universal lubricant suitable both for heavy-dutu machinery and for parts which are inaccessible when the plant is in operation and can be lubricated only at the start of each shift. Recommended temperature use: -20°C/+120°C

SPECIFICATIONS

ISO-L-XBCHB 2 DIN KPF 2K -20

eni Grease MU EP 2

- Yellow-brown lithium and oil based mineral greases containing E.P. (Extreme Pressure) additives.
- They are suitable for lubrication of guides. plain bearings, heavily loaded ball and roller bearings at high load and average temperatures. Recommended temperature use: -20°C/+120°C

SPECIFICATIONS

ISO-L-XBCHB 2 DIN KP 2K -20

Lubricant component	Role in the finished product
Base Oils	Lubrication and power transfer
Antioxidant	Fluid life prolonging
Viscosity index improver	Expanded temperature operation range of the fluid
Anti-wear	Anti-wear of mechanical parts
Corrosion inhibitor	Prevention of corrosion and rust
Friction modifier	Changes in the characteristics of internal friction of the lubricant to ensure proper torque transmission in clutch plates, preventing slipping and vibrations
Dispersant	Control of lacquers and sludge
Pour point improvers	Best machine operation at low temperatures
Anti seal-swelling agent	Prevents alteration of the rubber that can lead to oil leakage due to non sealing of the seal
Foam inhibitors	Foam development control
Coloring	Identification of the product

How many components are there in a multifunctional oil for agricultural machines and what are they for?





TEANE



10 reasons why with eni

1 sustainability

2 trust

Respectful use of resources, be it people be it the environment. For example eni is also using re-refined base oils to produce certain lubricants where applicable.

More than 60 years of experience in the lubricant business around the world.

3 internationality

eni lubricants are successfully sold in more than 100 countries.

4 world-class workforce

Working with **eni** means working with its highly motivated people committed to providing solutions to all customers every day.

5 research & development

More than 200 employees in research and development including the collaboration with the main research institutes in this field ensure **eni**'s high-technology-position.

6 high-quality

Our products are based on a careful selection of the best raw material sand additives in order to grant the best performing products.

eni produces finished products as well as its own base oils and additives.

7 integrated production cycle

8 customer care

Our personal mission is listen, understand and fulfil our customers' needs, hence involve them in our decision making process.

9 service

eni is committed to excellent and efficient service and high customer orientation with the aim to create value for all partners involved.

10 made in Italy

Italy's well renown tradition and culture of design to improve the quality of life is a fundamental part of our thinking and products, so we are proud to export 'italianity' to all parts of the world.







Via Laurentina, 449 00142 Roma Tel. 0039 06 59881

eni spa

Affix distributor's stamp here