

**Lubricants for Agricultural,
mining, fleet,
and construction equipment**

eni Rotra HY

AGIP ROTRA HY is an EP (Extreme Pressure) gear oil formulated for lubricating hypoid type gears operating under normal conditions for which an EP oil is required. It is also suitable for use in gear-boxes, final drives and power take-offs on farm and earthmoving machinery.

SPECIFICATIONS

API GL-4
MIL-L-2105 LEVEL
MB 235.1
MAN 341 TYP E1, Z1 (SAE 80W-90)

ZF TE-ML 02A, 16A, 17A
ZF TE-ML 19A (SAE 80W-90)
VW TL 726 LEVEL
LIEBHERR

AVAILABLE GRADE SAE

90, 80W90, 85W140

eni Rotra CT

ROTRA CT, available in SAE 10W, SAE 30 and 50 grades, is a special lubricant suitable for use in Caterpillar machines. ROTRA CT is to be used for lubrication of power shift, direct drive transmissions, final drives, differentials, winches, clutch plates, gears and bearings. Manual transmissions which have had the API CD/CAT TO-2 oil recommendation should now use CAT TO-4 oil.

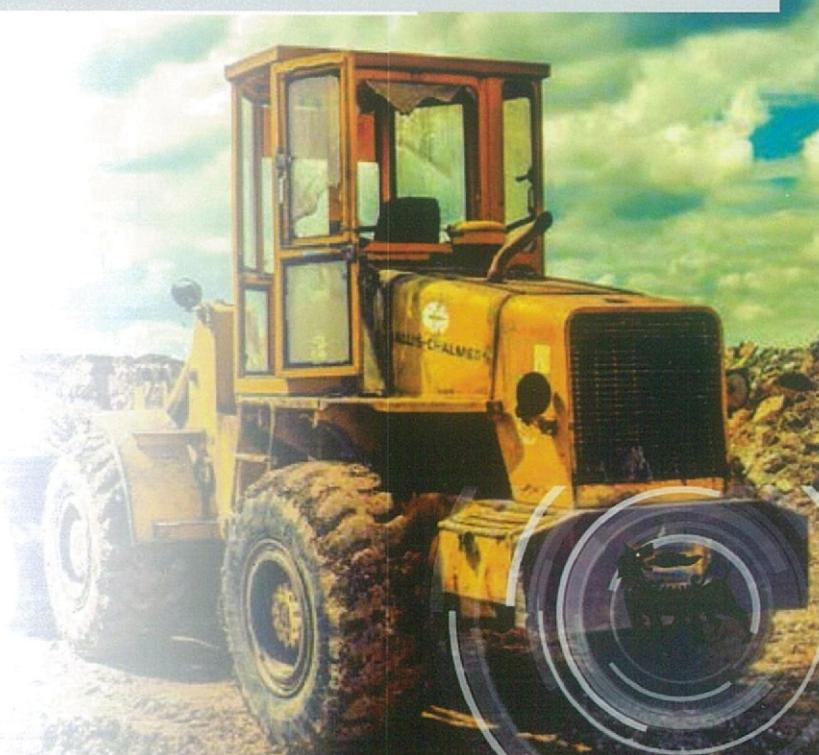
SPECIFICATIONS

Caterpillar TO-4
Allison C-4
Komatsu Micro-Clutch
ZF-TE-ML 01, 03

Eaton Fuller
API CF/CF-2

AVAILABLE GRADE SAE

10W, 30, 50





eni developed a complete line of lubricants for agricultural machinery, on land vehicles, construction vehicles and equipment meeting the highest performance standards.

eni lubricant lines include traditional technology products employing reliable, tried- and-tested formulations, as well as cutting edge technologies suitable for modern vehicles fitted with emission reducing exhaust gas after-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 such as multifunctional oils, coolants, hydraulic fluids and greases to meet the needs of the majority of agricultural and work machinery.

Hydraulic Oil



OSO

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

SPECIFICATIONS

ISO L-FD (OSO 15 & 22)
ISO L-HM (OSO 22 -150)
ISO 11158 (OSO 32 -150)
DIN 51524-2 HLP (OSO 15 – 150)
AFNOR NF E 48603 HM
AISE 127

BS 4231 HSD
CETOP RP 91 H HM
EATON VICKERS I-286-S3 (OSO 32-68)
LAMB LANDIS – CINCINNATI P68, P69, P70 –
Level (OSO 32-68)
PARKER HANNIFIN HF-0 Level (OSO 32-68)

AVAILABLE GRADE SAE

VG 32, 46, 68, 100, 150

Grease

eni Grease SM 2

Grey-black lithium and mineral oil based grease, containing molybdenum sulfide, suitable for lubrication of bearings and subjected to extreme mechanical loading and thermal stresses, including roller bearings where geometrical configuration results in a heavy wear problem. Can be used on worksites as a universal lubricant suitable both for heavy-duty machinery and for parts which are inaccessible when the unit 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 eni Grease LC 2

Multi-purpose mineral-based lithium complex grease containing anti-rust, antioxidant and E.P. (Extreme Pressure) 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, 1, 2

- Yellow-brown lithium and mineral 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

| Eni Grease MU EP | 0 | 1 | 2 |
|------------------|---------|---------|---------|
| Cincinnati | P-79 | P-72 | P-64 |
| ISO L-X- | BCHB 0 | BCHB1 | BCHB 2 |
| ISO L- | CKG 0 | CKG 1 | - |
| DIN 51 825 | KP0K-20 | KP1K-20 | KP2K-20 |
| DIN 51 825 | GP0K | GP1K | - |



eni i-Sigma Performance E7

SIGMA PERFORMANCE E7 is formulated from a premium performance additive package and selected base oil to give a long-drain service (SHPD oil) of the latest generation for supercharged diesel engines operating under severe duty, notably those of recent technology according to engine manufacturer specifications. The oil can also be used in normally-aspirated diesel engines installed in vehicles engaged on urban and short-haul goods and passenger service, providing a very wide quality margin.

SPECIFICATIONS

| | |
|--------------------------|-------------------------------|
| API CI-4/CH-4/CG-4/CF/SL | Volvo VDS-2 |
| ACEA E7,E5,E3 | Volvo VDS-3 |
| ACEA A3, B3, B4 | MTU Type 2 |
| Global DHD-1 | VW 501/505 |
| MAN 3275 | Allison C4 |
| Mercedes Benz 228.3 | Cummins CES 20071/72/76/77/78 |
| | Mack EO-M, EO-M Plus |

AVAILABLE GRADE SAE

15W40, 20W50

eni i-Sigma Universal

I-SIGMA UNIVERSAL is a multigrade oil suitable for the lubricant of all kinds of diesel engines including supercharged models installed in cars, trucks, buses, earthmoving, and pit-and-quarry equipment, as well as fixed plant such as generating sets, etc. It may also be used in gasoline engines.

SPECIFICATIONS

| | |
|---------------------|-------------|
| API SERVICE CF-4/SG | MAN 271 |
| M B 228.1 Quality | MACK EO-K/2 |
| VOLVO VDS | |

AVAILABLE GRADE SAE

15W40, 20W50

eni i-Sigma Plus

I-SIGMA PLUS is high performance lubricants for high output naturally aspirated and super-charged Diesel engines operating under very severe duty or which are subject to deposit formation or excessive wear due to design characteristics or to the fuel employed. It is formulated using large percentage of additives to impart superior detergency together with high dispersant, antioxidant, anticorrosion, and anti wear properties. The SAE grade 10W is also suitable to be employed in hydraulic circuits of various equipments (earthmovers, loaders, etc) where an engine oil of such a viscosity grade is prescribed.

SPECIFICATIONS

| | |
|------------------------|------------------|
| API SERVICE CF/SF | CATERPILLAR TO-2 |
| MIL – L – 2104 E level | ALLISON C-4 |
| MB 227.0 Quality | |

AVAILABLE GRADE SAE

10W, 30, 40, 50



Transmission 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 construction machinery operating today.

eni Rotra MP

AGIP ROTRA MP is an EP (Extreme Pressure) gear oil recommended for hypoid gears operating under severe conditions and for very highly loaded gears in general, especially those subject to dynamic loads. It can also be used in conventional gear-boxes and steering -boxes on cars and trucks, and in gear-boxes, final drives and power take-offs on farm and earth-moving machinery. It can thus be used for lubricating all gears, whatever they are made of, for which the manufacturer recommend an EP lubricant.

SPECIFICATIONS

API GL-5
US Department of the Army MIL-L-2105D
MB 235.0
Ford M2C 105A
Ford M2C 1054A
Ford SQM-2C-9002A/9008A/9101A
MAN 341 Type M1
Chrysler MS-5644
General Motors MS 9985290

MAN 342 Type N
Opel B 0401010
ZF TE-ML 01, 05A, 07A, 16B (SAE 80W-90), 16C, 16D (SAE 85W-140), 17B, 19B (SAE 80W-90), 21A
LIEBHERR
Volkswagen TL 727/726
Volvo 97310/97313/97314
DAF

AVAILABLE GRADE SAE

90, 140, 80W90, 85W140





10 Reasons why with eni

1

Sustainability

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.

2

Trust

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 materials and additives in order to grant the best performing products.

7

Integrated production cycle

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

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.



GANI

Manufactured / Imported by :

PT. Alp Petro industry, Pasuruan - Indonesia
Dibawah Lisensi Eni S.p.A Refining & Marketing Division
via LAurentina 449 Rome, Italy



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