AGRICULTURAL & OFF-HIGHWAY
FOR EQUIPMENT EMPLOYED IN THE AGRICULTURE, FORESTRY AND OFF-HIGHWAY SECTORS, WORKING CONDITIONS ARE AMONG THE MOST EXTREME. MACHINERY IS EXPECTED TO COPE WITH THE HEAVIEST WORKLOADS IN ALL WEATHERS, DAY IN, DAY OUT. AND THE PRESSURE’S ALWAYS ON TO AVOID COSTLY EQUIPMENT FAILURE AND DOWNTIME.

At Millers Oils, we understand the demands these environments make on machinery.

We’ve responded with a range of high performance lubricants and maintenance products designed to keep equipment running reliably and efficiently in all conditions.

We have history. Since the first tractors appeared, Millers Oils has maintained a strong reputation as a manufacturer and supplier of high quality lubricants to the agriculture and off-highway sectors.

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Technical Support

All our products are backed up by fast, accessible technical support. Our technical service team is always on hand to provide information and expert advice as and when it’s needed.

Many of the technical details and specifications relating to our products and their use with particular equipment are held in our own extensive database, so the answers you need may be available already.

We can offer the following support:
- Advice on the correct use of our products.
- Lubrication problem solving.
- Material safety datasheets (MSDS) and health & safety support.
- Sample analysis of lubricants.
- Used oil analysis and oil recommendations.
- Clear guidance over technical and product specification issues.

TECHNICAL HELP DESK
Tel: +44 (0) 1484 475060
## MILLFARM XTOU

**10w30 / 15w40**

**SUPER UNIVERSAL TRACTOR OIL**

XTOU Tractor Oils Universal have been developed to meet increased performance demands while retaining the traditional benefits of a multifunctional lubricant for engines, gearboxes, final drives, hydraulics and oil immersed wet brakes. Available in 10w30 and 15w40 viscosities.

| 205L | 25L | 4x5L (case) |

**PERFORMANCE PROFILE**

**Engine:**
- API CG-4, SF | ACEA E3
- MB 227.1 | MAN 271

**Gear/Transmission:**
- API GL4 | Allison C4 | CAT TO-2
- ZF TE ML 06A, B, C, DB

**STOU:**
- Massey Ferguson M1139, M1144, M1145 | Ford M2C 159B/C
- New Holland NH 030C, NH 024C
- FHM 8209201/2/3
- John Deere J27A

## MILLITRAN

**10w30**

**UNIVERSAL TRACTOR TRANSMISSION OIL**

Developed as a UTTO. Recommended for all tractor and off-highway equipment which requires a combined hydraulic, transmission and final drive fluid with wet brake and power take-off performance.

| 205L | 25L | 4x5L (case) |

**PERFORMANCE PROFILE**

Case New Holland MAT 3525 & 3526
- Massey Ferguson CMSM1135, M1141, M1143, M1145 | Ford M2C134D
- M2C86-B, C
- J.I Case/Case International MS-1204, 1206, 1207, 1209
- John Deere: JDM J20C, J20D
- Kubota UDT | Caterpillar TO-2
- Volvo WB101 (VCE 97303) excluding motor grader ZF rear axles
- Allison C4
- API GL4 | ZF TE-ML 06F, 06H

## MILLITRAN

**10w40**

**UNIVERSAL TRACTOR TRANSMISSION OIL**

A 10w40 UTTO as required by certain tractor and off-highway equipment as a combined hydraulic, transmission and final drive fluid with wet brake and power take-off performance.

| 205L | 25L | 4x5L (case) |

**PERFORMANCE PROFILE**

Case New Holland MAT 3525 & 3526
- Massey Ferguson CMSM1135, M1141, M1143, M1145 | Ford M2C134D
- M2C86-B, C
- J.I Case/Case International MS-1204, 1206, 1207, 1209
- John Deere: JDM J20C, J20D
- Kubota UDT | Caterpillar TO-2
- Volvo WB101 (VCE 97303) excluding motor grader ZF rear axles
- Allison C4
- API GL4
- ZF TE-ML 06F, 06H

## MILLITRAN HY 20

**FULLY SYNTHETIC UNIVERSAL TRACTOR TRANSMISSION OIL SAE 20**

A UTTO product with specific viscosity requirements for certain tractors and off-highway equipment.

| 205L | 25L | 4x5L (case) |

**PERFORMANCE PROFILE**

Case New Holland MAT 3525 & 3526
- Massey Ferguson CMSM1135, M1141, M1143, M1145 | Ford M2C134D
- M2C86-B, C
- J.I Case/Case International MS-1204, 1206, 1207, 1209
- John Deere: JDM J20C, J20D
- Kubota UDT | Caterpillar TO-2
- Volvo WB101 (VCE 97303) excluding motor grader ZF rear axles
- Allison C4
- API GL4

## MILLITRAN 4 SAE 10, 30, 50

**TRANSMISSION, WET BRAKES, HYDRAULICS AND FINAL DRIVES**

The Millitran 4 range has been developed specifically for off-highway equipment that requires Caterpillar T0-4 specification oil for use in transmissions, hydraulics, torque converters, final drives and wet brake applications.

| 205L | 25L | 4x5L (case) |

**PERFORMANCE PROFILE**

API GL4 | CAT T0-4, Caterpillar TO-4M, Caterpillar TO-2
- Allison C4
- Komatsu KE5 07.868.1

## MILLITRAN FD-1 SAE 60

**HEAVY DUTY FINAL DRIVE AND AXLE OIL FOR USE IN OFF HIGHWAY EQUIPMENT**

Developed to meet the requirements of Caterpillar FD-1 specification.

| 205L | 25L | 4x5L (case) |

**PERFORMANCE PROFILE**

Caterpillar FD-1 SAE 60
<table>
<thead>
<tr>
<th>Product</th>
<th>Performance Profile</th>
<th>API GL</th>
<th>MIL-L-2105</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EP 80w 90 GL4 GEAR OIL</strong></td>
<td>An API GL4 gear oil for use in vehicle gearboxes and transaxles, industrial power transmission systems and axles not requiring hypoid oils.</td>
<td></td>
<td>205L</td>
</tr>
<tr>
<td><strong>HYPOID 80w90, 85w140 GL5 GEAR OILS</strong></td>
<td>GL5 gear oils for hypoid rear axles, differentials and certain heavy duty gearboxes and transmissions.</td>
<td>API GL5</td>
<td>MAN 342M-2</td>
</tr>
<tr>
<td><strong>LIMITED SLIP 90 DIFFERENTIAL OIL</strong></td>
<td>For use in limited slip differentials and front drive axles. Provides smooth power transmission and reduces noise.</td>
<td>API GL5</td>
<td></td>
</tr>
<tr>
<td><strong>MILLERMATIC TYPE G AUTOMATIC TRANSMISSION FLUID</strong></td>
<td>For use in pre-1981 Ford automatic gearboxes and other gearboxes requiring a non-friction modified ATF.</td>
<td>Ford ESP-M2C33G</td>
<td></td>
</tr>
<tr>
<td><strong>MILLERMATIC ATF UN AUTOMATIC TRANSMISSION FLUID</strong></td>
<td>For use in all applications where a Dexron IID is specified, including automatic transmissions, power steering, torque converters, hydraulic systems, transfer boxes and power take-off applications.</td>
<td>GM Dexron IID</td>
<td>Ford Mercon</td>
</tr>
<tr>
<td><strong>MILLERMATIC ATF DM AUTOMATIC TRANSMISSION FLUID</strong></td>
<td>A synthetic based ATF for use where a Dexron IIIH is specified, including automatic transmissions, power steering, torque converters, hydraulic systems, transfer boxes and power take-off applications.</td>
<td>GM Dexron IIH</td>
<td>Ford Mercon</td>
</tr>
<tr>
<td><strong>MILLERMATIC ATF DM EXTRA AUTOMATIC TRANSMISSION FLUID</strong></td>
<td>A synthetic based ATF for use in automatic transmissions and equipment requiring the following performance profile.</td>
<td>Allison C4</td>
<td>Allison TES-295 suitable after warranty period</td>
</tr>
<tr>
<td><strong>BRAKE &amp; CLUTCH FLUIDS</strong></td>
<td></td>
<td>SAE J1703</td>
<td>F.M.V.S.S 116 DOT 4</td>
</tr>
<tr>
<td><strong>UNIVERSAL BRAKE FLUID DOT 4 NON-MINERAL BRAKE AND CLUTCH FLUID</strong></td>
<td>A high boiling point universal brake and clutch fluid.</td>
<td></td>
<td>25L</td>
</tr>
<tr>
<td><strong>LHM FLUID HIGH PERFORMANCE MINERAL BRAKE AND CLUTCH FLUID</strong></td>
<td>A mineral-based product required for some hydraulic brakes. Not to be mixed with other non-mineral brake fluids.</td>
<td></td>
<td>10X1L (case)</td>
</tr>
<tr>
<td><strong>NON-MINERAL BRAKE AND CLUTCH FLUID</strong></td>
<td></td>
<td>Meets PSA B71 2710</td>
<td>Ford ESN</td>
</tr>
<tr>
<td><strong>LHM FLUID</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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For more information or assistance, contact Product Specification Info & Technical Help at Tel: +44 (0) 1484 475060.
ENGINE OILS

MILLFARM XHPD 15w40
HIGH PERFORMANCE MINERAL ENGINE OIL
Recommended for use in tractors, agricultural equipment, off-highway and fleet operations. Suitable for use in Euro III and most Euro IV and Euro V emission controlled engines. Extended drain periods of up to 500 hours.
205L | 25L

PERFORMANCE PROFILE
ACEA E7 | API CI-4, SL
MAN M3275 | MB 228.3
Cummins CES 20071, 2, 6, 7
Mack EO-N, EO-M Plus
Volvo VDS-3
Renault RLD/RLD2
CAT ECF-1a, ECF-2 | MTU Type 2

TRUCKSYNTH LE 10w40
FULLY SYNTHETIC LOW SAPS ENGINE OIL
High performance fully synthetic low SAPS engine oil suitable for the latest Euro IV, V and VI emission controlled engines requiring ACEA E6, E9 specification lubricants. Extended drain periods of up to 760 hours.
205L | 25L | 4X5L (case)

PERFORMANCE PROFILE
ACEA E6, E7, E9 | API CI-4 / SL
MAN M3477, M3271-1 | MB 228.5, 228.51
Mack EO-N, EO-M Plus
Renault RXD RLD-2, RGD
MTU Type 3.1 | Volvo VDS 3, CNG
CAT ECF-1a | Deutz DDC IV-10 LA
Scania LA | JASO DH-2

TRUCKSYNTH EE 5w30
FULLY SYNTHETIC LOW SAPS ENGINE OIL
Providing “one engine oil” for most modern fleets. Offering maximum fuel efficiency, extended drain intervals and protection for engine and emission systems fitted to the latest generation of emission controlled diesel engines. Compatible with SCR and DPF systems.
205L | 25L | 4X5L (case)

PERFORMANCE PROFILE
ACEA E6, E9, E7, API CJ-4 / SN
MAN M3477, M3271-1 | MB 228.5, 228.51
Mack EO-O Premium Plus
EO-N Premium Plus, EO-M Plus
Renault RXD RLD-3, RGD,
MTU Type 3.1 | Volvo VDS 4, VDS 3, CNG
CAT ECF-3 | Deutz DDC IV-10 LA
Cummins CES 20081 | JASO DH-2

TRUCKMASTER CJ-4 15w40
MID SAPS ENGINE OIL
Class leading performance in heavy duty long drain diesel engine oils. Utilising a combination of Group II base oils, VI improvers and the latest technology additives. Extended drain periods of up to 500 hours.
205L | 25L

PERFORMANCE PROFILE
ACEA E9 | API CJ-4, SN
MAN 3575 MB 228.31 | Volvo VDS-4
Mack EO-O Premium Plus | Cummins 20071, 72, 76, 77, 78, 81 | CAT ECF-3, ECF-2, ECF-1a | Renault RLD-3
MTU Category 2.1 | Deutz DDC III-10 LA

TRUCKMASTER FE 10w30
SEMI SYNTHETIC ENGINE OIL
Provides class leading performance in heavy duty, long drain diesel engine oils. The combination of latest Technology, group II base oils, viscosity improvers and mid SAPS performance additives has produced an oil with outstanding capability.
205L | 25L

PERFORMANCE PROFILE
ACEA E9, E7, API CJ-4, SN
MAN M3275 | MB 228.31
Volvo VDS-4 | Mack EO-O
Premium Plus
Cummins CES 20071, 2, 6, 7, 8, 81
Detroit Diesel 93K218
CAT ECF-3, ECF-2, ECF-1a
Renault RLD-3 | MTU Category 2.1
Deutz DDC III-10 LA

TRUCKMASTER XPFE 10w40
SYNTHETIC HIGH PERFORMANCE ENGINE OIL
Formulated to meet and exceed the requirements of Mercedes Benz 228.5 specification. Provides enhanced lubrication for other diesel engines requiring this level of performance. Benefits include easy starting, low oxidation, high temperature tolerance, high film strength.
205L | 25L | 4X5L (case)

PERFORMANCE PROFILE
ACEA E7 | API CI-4, SN
MAN 3575 MB 228.31
Volvo VDS-4 | Mack EO-O
Premium Plus
Cummins CES 20071, 2, 6, 7, 8, 81
Detroit Diesel 93K218
CAT ECF-3, ECF-2, ECF-1a
Renault RLD-3 | MTU Category 3
Deutz DDC III-10 LA

TRUCKMASTER LD 10w40
SEMI SYNTHETIC ENGINE OIL
Providing excellent protection for a range of European and US technology diesel engines operating under arduous conditions. LD ensures high levels of mechanical reliability, engine longevity, extended drain periods, low oil top-up with optimal fuel economy.
205L | 25L

PERFORMANCE PROFILE
ACEA E7, A3/B4, API CI-4, SL
MAN M3275 | MB 228.3
Volvo VDS-3 | Mack EO-O
Premium Plus | Cummins CES 20071, 2, 6, 7, 8 | DHD-1
Renault RLD/RLD2
CAT ECF-3 | ECF-2 | MTU Type 2
Deutz DDC III-10
Detroit Diesel DDC 93K215

MAXIFLEET DD 40 MONOGRAD ENGINE OIL
Suitable for stationary gas engines and off-highway vehicles, particularly Detroit Diesel two stroke engines.
205L | 25L | 4X5L (case)

PERFORMANCE PROFILE
API CF-2, CF, S6 | MB 228.0
MAN M270 | TBN mg KOH/gm 7.1
ENGINE OILS

MILLGAS 40
MONOGRAD ENGINE OIL
For the lubrication of natural gas powered engines according to the OEM requirements.
Note: Selection of the correct gas engine oil is critical with regard to the quality of gas in use and the OEM requirements. Consult Technical with regard to your selection.
205L | 25L | 4X5L (case)

LAWN MOWER OIL 30
MONOGRAD ENGINE OIL
Suitable for use in all 4-stroke lawnmower engines, air and water cooled.
25L | 4X5L (case) | 10x1L (case)

DALBY 2 STROKE OIL
MONOGRAD ENGINE OIL
Low ash formulation suitable for all air cooled two-stroke engines. Can be used in outboard engines not requiring an ashless oil. Dyed blue for ease of recognition.
205L | 25L | 4X5L (case) | 10x1L (case)

SUPER TWO STROKE
ASHLESS ENGINE OIL
A two-stroke oil for use where ashless performance additives are required to minimise pre-ignition and lower emissions.
205L | 25L | 4X5L (case) | 10x1L (case)

HYDRAULIC OILS

MILLMAX 22, 32, 37, 46, 68
MINERAL HYDRAULIC OILS
High quality mineral oils with additive treatment to provide excellent anti-wear, antifoam, oxidation stability and corrosion protection. Provides a good response in hydraulic and fluid power systems.
205L | 25L | 4X5L (case)

MILLMAX 22 HV, 32 HV, 37 HV, 46 HV, 68 HV
HIGH VISCOSITY INDEX MINERAL HYDRAULIC OILS
High quality, high viscosity index, mineral oils offering multigrade properties in extreme temperatures. Provides excellent anti-wear, antifoam, oxidation stability and corrosion protection. Millmax 46HV is a popular selection in hydrostatic applications.
205L | 25L

MILLMAX 22 ZF, 32 ZF, 46 ZF, 68 ZF
ZINC FREE MINERAL HYDRAULIC OILS
High quality mineral oils with zinc-free additive treatment to provide excellent anti-wear, antifoam, oxidation stability and corrosion protection. Provides a good response in hydraulic and fluid power systems.
205L | 25L

P392 HYDRAULIC OIL BLUE
HIGH VISCOSITY INDEX MINERAL HYDRAULIC OIL
High viscosity index ISO 46 mineral oil to meet the specifications of Poclain hydraulic fluid.
205L | 25L

MAXIFLEET 10, 20
MONOGRAD OIL SUITABLE FOR HYDRAULIC SYSTEMS
For use in hydraulic systems where engine oil additive type oils are required by the manufacturer.
205L | 25L | 4X5L (case)

MINERAL HYDRAULIC OILS
High quality mineral oils with additive treatment to provide excellent anti-wear, antifoam, oxidation stability and corrosion protection. Provides a good response in hydraulic and fluid power systems.
205L | 25L | 4X5L (case)

PERFORMANCE PROFILE
DIN 51524 Part 2 | Denison HF-O, HF-2
Vickers-HP Vane Pump
Cincinnati Milacron P38, P54, P55, P57, P68, 70
AFNOR Filtration (Wet NFE 48-691)

MILLMAX 22, 32, 37, 46, 68
MINERAL HYDRAULIC OILS
High quality mineral oils with additive treatment to provide excellent anti-wear, antifoam, oxidation stability and corrosion protection. Provides a good response in hydraulic and fluid power systems.
205L | 25L | 4X5L (case)

PERFORMANCE PROFILE
API CC | MIL-L-2104B
TBN mg KOH/gm 8.1

MILLMAX 22 HV, 32 HV, 37 HV, 46 HV, 68 HV
HIGH VISCOSITY INDEX MINERAL HYDRAULIC OILS
High quality, high viscosity index, mineral oils offering multigrade properties in extreme temperatures. Provides excellent anti-wear, antifoam, oxidation stability and corrosion protection. Millmax 46HV is a popular selection in hydrostatic applications.
205L | 25L

PERFORMANCE PROFILE
DIN 51524 Part 2 and 3 | Denison HF-O, HF-2
Vickers-HP Vane Pump
Cincinnati Milacron P38, P54, P55, P57, P68, 70
US Steel 127, 136 | ASTM 943, Pass

P392 HYDRAULIC OIL BLUE
HIGH VISCOSITY INDEX MINERAL HYDRAULIC OIL
High viscosity index ISO 46 mineral oil to meet the specifications of Poclain hydraulic fluid.
205L | 25L

PERFORMANCE PROFILE
DIN 51524 Part 2 | SEB 181-222
AFNOR E48-603 HM

Engine oils

For the lubrication of natural gas powered engines according to the OEM requirements.
Note: Selection of the correct gas engine oil is critical with regard to the quality of gas in use and the OEM requirements. Consult Technical with regard to your selection.
205L | 25L | 4X5L (case)

Lawnmower oil 30

Suitable for use in all 4-stroke lawnmower engines, air and water cooled.
25L | 4X5L (case) | 10x1L (case)

Dalby 2 stroke oil

Low ash formulation suitable for all air cooled two-stroke engines. Can be used in outboard engines not requiring an ashless oil. Dyed blue for ease of recognition.
205L | 25L | 4X5L (case) | 10x1L (case)

Super two stroke

Ashless engine oil
A two-stroke oil for use where ashless performance additives are required to minimise pre-ignition and lower emissions.
205L | 25L | 4X5L (case) | 10x1L (case)

Millmax 22, 32, 37, 46, 68
Mineral hydraulic oils
High quality mineral oils with additive treatment to provide excellent anti-wear, antifoam, oxidation stability and corrosion protection. Provides a good response in hydraulic and fluid power systems.
205L | 25L | 4X5L (case)

Millmax 22 HV, 32 HV, 37 HV, 46 HV, 68 HV
High viscosity index mineral hydraulic oils
High quality, high viscosity index, mineral oils offering multigrade properties in extreme temperatures. Provides excellent anti-wear, antifoam, oxidation stability and corrosion protection. Millmax 46HV is a popular selection in hydrostatic applications.
205L | 25L
BIODEGRADABLE HYDRAULIC OILS

MILLMAX BIO 15, 32
HEES TYPE SYNTHETIC BIODEGRADABLE HYDRAULIC OILS

Biodegradable esters utilising ash-less anti-wear additives for use in hydraulic applications where a biodegradable HEES (Hydraulic Environmental Ester Technology) type fluid is required. High viscosity index multigrade performance and low pour point provide excellent performance across a wide temperature range.

PERFORMANCE PROFILE
DIN 51524 Part 2 and 3 | Exceeds OECD (Organization for Economic Co-operation and Development) 201, 202, 203, 301B

MILLMAX 46 HFD(u), 68 HFD(u)
SYNTHETIC BIODEGRADABLE AND FIRE RESISTANT HYDRAULIC OILS

Biodegradable esters utilising ash-less anti-wear additives for use in hydraulic applications where a fire-resistant, biodegradable HFD(u) type fluid is required. High viscosity index multigrade performance and low pour point provide excellent performance across a wide temperature range. Recommended for working environments where a high degree of fire resistance is required.

PERFORMANCE PROFILE
DIN 51524 Part 2 and 3 | Sperry Vickers 1-296-S
AFNOR NFE 48603 | BSEN ISO 12922:2002
Exceeds OECD (Organization for Economic Co-operation and Development) 201, 202, 203, 301B

205L | 25L

205L | 25L
GREASES AND COMPOUNDS

LITHIUM GREASES

DELTAPLEX 2EP
RED COMPLEX GREASE
Outstanding performance in all types of bearings under a wide range of operating conditions.
50kg | 12.5kg | 3kg | 36x400g cartridge (case)

PERFORMANCE PROFILE
NLGI No.2 | Operating range -20 to + 150 °C

BLACK MOLY MM2, MPQ 2
MULTIPURPOSE GREASE WITH MOLYBDENUM DISULPHIDE
An excellent general purpose grease with the inclusion of molybdenum disulphide solid lubricant to provide added performance.
50kg | 12.5kg | 36x400g cartridge (case)

PERFORMANCE PROFILE
NLGI No.2 | Operating range -20 to + 140 °C

PBL
PIN & BUSH LUBRICANT
A tenacious grease for heavy duty applications where adhesion, shock loading and good corrosion protection are required. Ideal for use on bucket pins and bushes on heavy earth-moving equipment and crane slews, and 5th-wheel applications on articulated vehicles. Not recommended for anti-friction, rolling element bearings.
50kg | 12.5kg | 36x400g cartridge (case)

PERFORMANCE PROFILE
NLGI No.2 | Operating range -20 to + 140 °C

DELTA 0EP, 00EP, 000EP
SEMI FLUID AUTOLUBE GREASE
Pumpable grease for automatic lubrication systems. Self-collapsing properties make it suitable for use in enclosed gear boxes.
50kg | 12.5kg | 3kg

PERFORMANCE PROFILE
NLGI No.00 | Operating range -30 to + 110 °C

DELTA 2EP
MULTIPURPOSE GREASE
Good all-round grease for the lubrication of ball and roller bearings, and general use.
50kg | 12.5kg | 3kg | 36x400g cartridge (case)

PERFORMANCE PROFILE
NLGI No.2 | Operating range -20 to + 140 °C

MILLERGREASE WG2
SPECIALISED GREASE WITH CALCIUM
A multipurpose grease for all types of bearings subjected to high loads, and where water wash-out may be a problem.
50kg | 12.5kg | 36x400g cartridge (case)

PERFORMANCE PROFILE
NLGI No.2 | Operating range -20 to + 140 °C

MILLERGREASE LLWR2
SPECIALISED GREASE
A grease developed for lubricating bearings and components operating under severe conditions: high temperatures, high load, salt water ingress and certain levels of chemical attack.
50kg | 12.5kg | 36x400g cartridge (case)

PERFORMANCE PROFILE
NLGI No.2 | Operating range -30 to + 150 °C
MINERAL COMPRESSOR OILS

COMPRESSOR OILS

CA HAMMER GREASE
SPECIALISED GREASE WITH COPPER, GRAPHITE AND ALUMINIUM SOLIDS
A soft adhesive water resistant grease. Ideal for use on contact breaker hammers, hydraulic and air operated hammers, chisels and peckers.
12.5kg | 36x400g cartridge (case)

PERFORMANCE PROFILE
NLGI No.2 | Operating range -20 to + 100 °C (under certain conditions)

MILLERVANE 2000
MINERAL COMPRESSOR OIL
High quality mineral oil with a multi-functional high performance additive system. For the lubrication of reciprocating, rotary compressors and vacuum pumps according to the equipment manufacturers' requirements and specifications.
205L | 25L | 4X5L (case) | 10X5L (case)

PERFORMANCE PROFILE
DIN 51506 VD-L
ISO/DP 6521 (DAG)

MILLAIR 32, 46, 68, 100, 150
MINERAL COMPRESSOR OILS
High quality mineral oils with a multi-functional high performance additive system. For the extended drain periods required by some vane compressors. Also suitable for use in some reciprocating compressors.
205L | 25L | 4X5L (case) | 10X5L (case)

PERFORMANCE PROFILE
DIN 51506 VD-L

BENTONE
GREASES

SPECIALISED GREASE WITH COPPER, GRAPHITE AND ALUMINIUM SOLIDS
A soft adhesive water resistant grease. Ideal for use on contact breaker hammers, hydraulic and air operated hammers, chisels and peckers.
12.5kg | 36x400g cartridge (case)

PERFORMANCE PROFILE
NLGI No.2 | Operating range -20 to + 100 °C (under certain conditions)

MILLAIR 46 SYNTH
SYNTHETIC COMPRESSOR OIL
Synthetic base oils with multi-functional additive system. For the lubrication of reciprocating and rotary compressors requiring extended drain periods of up to 4000 hours.
205L | 25L

PERFORMANCE PROFILE
4000 hour operation
DIN 51506 VD-L
ISO/DP 6521 (DAG)

MILLAIRVANE 2000
MINERAL COMPRESSOR OIL
High quality mineral oil with a specially developed additive system for vane compressors. Allows for the extended drain intervals required by some vane compressors. Also suitable for use in some reciprocating compressors.
205L | 25L | 4X5L (case) | 10X5L (case)

PERFORMANCE PROFILE
DIN 51506 VD-L
ISO/DP 6521 (DAG)

RED RUBBER GREASE
VEGETABLE OIL-BASED
A vegetable oil-based product suitable for the lubrication of rubber and components which come into contact with rubber.
6x500g (case)

PERFORMANCE PROFILE
NLGI No.2

ANTI-SEIZE COMPOUNDS

MILLERGREASE NS COPPER
ANTI-SEIZE COMPOUND
A combination of high-performance solids and polymers providing a non-melting assembly compound.
12.5kg | 3kg | 6x500g (case)

PERFORMANCE PROFILE
NLGI No.1.5 | Operating range -20 to + 1100 °C

ANTI-SEIZE AND ASSEMBLY COMPOUNDS

MILLERGREASE NS COPPER
ANTI-SEIZE COMPOUND
A combination of high-performance solids and polymers providing a non-melting assembly compound.
12.5kg | 3kg | 6x500g (case)

PERFORMANCE PROFILE
NLGI No.1.5 | Operating range -20 to + 1100 °C

MILLERGREASE NS COPPER
ANTI-SEIZE COMPOUND
A combination of high-performance solids and polymers providing a non-melting assembly compound.
12.5kg | 3kg | 6x500g (case)

PERFORMANCE PROFILE
NLGI No.1.5 | Operating range -20 to + 1100 °C

ANTI-SEIZE AND ASSEMBLY COMPOUNDS

MILLERGREASE NS COPPER
ANTI-SEIZE COMPOUND
A combination of high-performance solids and polymers providing a non-melting assembly compound.
12.5kg | 3kg | 6x500g (case)

PERFORMANCE PROFILE
NLGI No.1.5 | Operating range -20 to + 1100 °C

ANTI-SEIZE AND ASSEMBLY COMPOUNDS

MILLERGREASE NS COPPER
ANTI-SEIZE COMPOUND
A combination of high-performance solids and polymers providing a non-melting assembly compound.
12.5kg | 3kg | 6x500g (case)

PERFORMANCE PROFILE
NLGI No.1.5 | Operating range -20 to + 1100 °C

ANTI-SEIZE AND ASSEMBLY COMPOUNDS
CHAINSaw Oils

CHAINSaw Oil
ISO 100 (SAE 30), ISO 150 (SAE 40), ISO 220 (SAE 50)
MINERAL OIL

Premium grade mineral oils with the inclusion of a tacky adhesive additive, anti-wear and corrosion resistance for the lubrication of the chain, guide bars, linkages and rivets.
205L | 25L | 4X5L (case)

AntifreeZe COoLanTs

ALPINE ANTIFREEZE BT
ALSO AVAILABLE DILUTED AND READY FOR USE

A high quality corrosion-inhibited ethylene glycol antifreeze and coolant to provide engine cooling systems with frost and anti-corrosion protection.
Blue in colour.
205L | 25L | 4X5L (case)

PERFORMANCE PROFILE
BS6580-1992
Protection from freezing down to -46°C

ALPINE ANTIFREEZE EXTEND
ALSO AVAILABLE DILUTED AND READY FOR USE

An ethylene glycol based automotive antifreeze and coolant utilising Organic Acid Technology (OAT). For use in all diesel and petrol engines to protect from frost and prevent corrosion.
Red in colour.
205L | 25L | 4X5L (case)

PERFORMANCE PROFILE
Meets most European and International standards for a long life antifreeze. Protection down to -37°C.
Extra long life-up to 150,000 miles or 5 years whichever occurs first.

ALPINE ANTIFREEZE PG

A propylene glycol based antifreeze, offering low toxicity for use in environmentally sensitive areas. Excellent anti-corrosion protection.
Blue in colour.
205L | 25L | 4X5L (case)

PERFORMANCE PROFILE
BS6580 | Protection down to -32°C

Sundry Products

MILking MACHINE OIL
MINERAL OIL

A mineral oil for the lubrication of vacuum pumps in all types of milking machines.
205L | 25L | 4X5L (case)

PERFORMANCE PROFILE
DIN 51524 part 2

SHIRE OIL
HIGHly Refined WHITE OIL

For use as a dressing for shire horse feathers.
205L | 25L | 4X5L (case) | 10xL (case)

PIG OIL
A LIGht Viscosity PAle OIL

For application to pigs’ backs to prevent dryness of the skin and to improve the quality of the coat.
205L | 25L
At Millers Oils we’re already developing new solutions designed to reduce costs, protect engines and gain maximum performance from the next generation of diesel fuels. This is Eclipse, our advanced range of fuel treatments.

Environmental legislation changes continually. The EU Directive 2009/30/EC set new standards for red diesel used in non-road mobile machinery, and came into effect 1st January 2011. Sulphur levels in fuel have been cut by 99% to prevent damage to the emission control systems on new Stage IIIb engines. While the lower cetane value of gas oil reduces the combustibility of the fuel, the reduction in sulphur has a direct effect on the fuel’s ability to lubricate injector pumps. The amount of biodiesel that may now be blended into the fuel is 7% (B7), an increase from 5% (B5).

The introduction of biodiesel fuel will unquestionably reduce negative effects on the environment, but there’s also strong evidence that it impacts directly on engine performance and durability.

- Biodiesel is prone to both fuel dilution and fuel concentration in the oil sump.
- With biodiesel, oil viscosities may change and lubricants can quickly go out of grade.
- Oil viscosities can also increase due to oxidation.
- Increased levels of piston deposits can occur.
- Increased likelihood of sludge formation.
- Biodiesel is prone to creating bacterial and fungal contamination in the fuel tank and system.

All these factors can lead to performance problems, higher maintenance and repair costs and even reduced engine life when using biodiesel.
ECLIPSE™
INCREASES FUEL EFFICIENCY, LOWERS EMISSIONS & CLEANS INJECTORS

Eclipse™ is a revolutionary new fuel additive that not only increases fuel efficiency but also lowers emissions and cleans injectors. For cost effective performance with all types of diesel engines, especially Euro IV and Euro V emission compliant vehicles. Also compatible with Euro III and older vehicles and mobile plant.

APPLICATION:
Add to the bulk fuel tank or individual vehicle tanks in the ratio one part to 1000 parts of fuel [1ml/Litre].

ECLIPSE™ POWERCIDE PLUS
PREVENTS FUEL BACTERIAL CONTAMINATION, INCREASES FUEL EFFICIENCY, LOWERS EMISSIONS & CLEANS INJECTORS

A specialist diesel fuel treatment, which combines an effective treatment for the prevention of bacterial and fungal contamination with improved cetane and detergent additives for increased fuel efficiency, lower emissions and cleaner injectors. To eradicate bacterial and fungal contamination first use Eclipse™ Shock Dose then follow up with Eclipse™ Powercide Plus for continued protection against contamination.

APPLICATION:
Add to the bulk fuel tank or individual vehicle tanks in the ratio one part to 1000 parts fuel [1ml/Litre].

ECLIPSE™ SHOCK DOSE
HELPS ERADICATE BACTERIAL AND FUNGAL CONTAMINATION OF FUEL & FUEL SYSTEMS

A highly effective diesel fuel treatment, which helps to eradicate problems caused by bacterial and fungal contamination. For use where contamination of the fuel and fuel system has already occurred or is suspected.

APPLICATION:
Add to fuel in the ratio one part to 1000 parts fuel [1 ml/Litre]. Following this treatment Eclipse Powercide Plus should be added to the fuel to offer continued protection against contamination.

BIODIESEL
PROS AND CONS

BENEFITS:
- REDUCED BLACK SMOKE
- REDUCED PARTICULATE MATTER
- CO₂ NEUTRAL

POTENTIAL PROBLEMS:
- INCREASED NOX
- REDUCED POWER
- REDUCED FUEL ECONOMY
- FUEL INSTABILITY
- INCREASED FUEL DILUTION
- FUEL/LUBRICANT INTERACTION CAUSING OIL OXIDATION, PISTON DEPOSITS AND SLUDGE
- BACTERIAL AND FUNGAL GROWTH IN THE FUEL TANK

Biodiesel makes fuel and fuel systems vulnerable to biological contamination which can clog up and eventually block fuel systems.

The image to the right shows the biological contamination of a fuel filter after using biodiesel.

ZEROFLO TWO
WINTER FUEL ADDITIVE

Zeroflo Two is an additive for diesel fuel to improve cold flow characteristics and depress the formation of wax crystals which can appear at low temperatures. Fuel varies in response to wax crystal modifiers on a fuel to fuel basis. Winter diesel and gas oil should flow down to -15°C. The addition of Zeroflo Two at the recommended treatment should improve this by a further -5°C down to -20°C. To be used at one part per 1000 parts of diesel fuel.

205L | 25L |