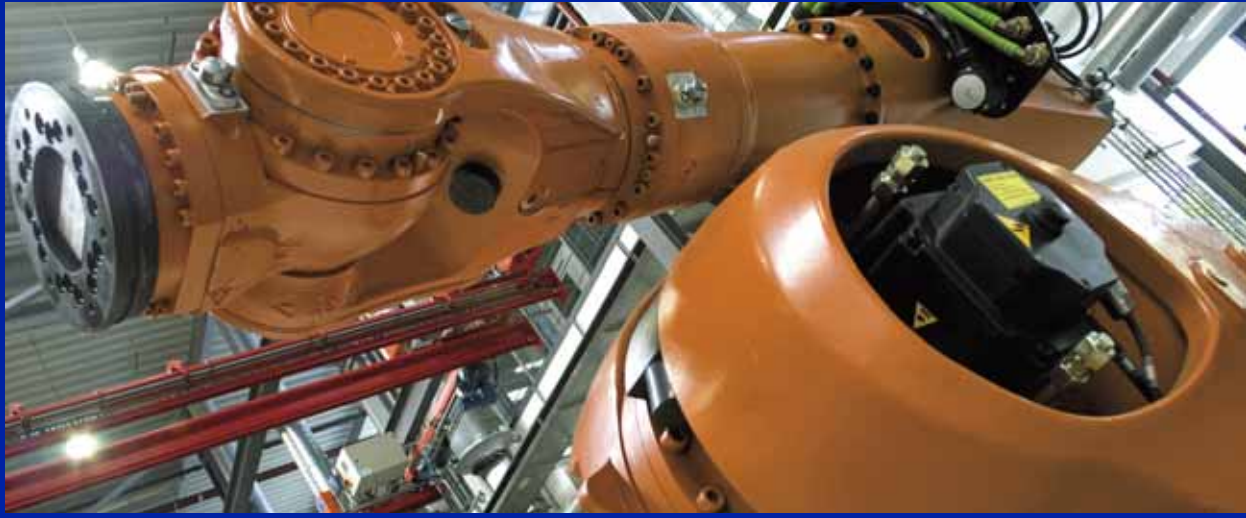




IRIS



INDUSTRIAL



Industrial Lubricants



Tradition in Excellence since 1869

Over 130 years of progress has seen Morris Lubricants become one of Europe's largest privately owned lubricants companies, serving the UK and exporting to over 65 countries worldwide.

Morris Lubricants remains a company with a sense of history and tradition, with sound, high quality products and uncompromising customer service combined with a refreshing approach to future development and innovation. Located in the historic town of Shrewsbury, Shropshire, the Morris plant is a statement of modern efficiency and fits discreetly into its market town setting. Morris Lubricants is a major supplier to multi-national industrial manufacturers.

HYDRAULIC OILS

A range of hydraulic oils for a wide variety of applications

TRIAD

Premium Grade

ISO VG 32, 46, 68

A range of premium grade mineral based hydraulic oils with good anti-wear properties providing protection in the most demanding of systems.

Specifications

DIN 51524 Parts 1 and 2 (DIN 51525),
Sperry Vickers I-286-S, M-2950-S,
Denison HF-2, Cincinnati Milacron P-68, 69, 70



LIQUIMATIC NO'S. 1 - 8

Zinc Free

ISO VG 10, 15, 22, 32, 46, 68, 100, 150

A range of high quality mineral oil based hydraulic oils, incorporating ashless additive technology and available in a variety of viscosity grades. Excellent anti-wear and EP properties provide protection against wear in the most demanding of systems. Other applications include: machining centre headstocks, centralised lubrication systems, compressors, suspension units, airline lubricators and some turbine applications where long life, filterability and high demulsification properties are required.

Specifications

DIN 51524 Parts I and II,
AFNOR NFE 48-603 Parts I and II,
Vickers Eaton I-286-S, M-2950-S,
Denison HF-0, HF-1, HF-2,
US Steel No.s 126, 127, 136,
Cincinnati Milacron P-68, P-69, P-70,
General Motors LS-02,
Bosch Rexroth (formerly Mannesman
Rexroth) RE 90220,
German Steel Industry SEB 181222,
SAE MS1004

LIQUIMATIC HV

Multi-grade

ISO VG 10, 22, 32, 46, 68, 100

A range of high viscosity index hydraulic oils, formulated from high quality mineral oils and the latest anti-wear technology. They are ideal for hydraulic systems subjected to the very extremes of operating conditions and temperatures, from frozen food stores (-20°C) to industrial hydraulic systems at elevated temperatures.

Specifications

DIN 51524 Part 3 (HVLP),
Sperry Vickers I-286-S3, M-2950-S,
Denison HF-0 dry and wet T6C-020,
Denison HF-1, HF-2,
Cincinnati Milacron P-68, 69, 70 (HV32,
HV68, HV46), Poclair (HV 46),
AFNOR E48-603 (HV:HM), ASLE 64.1 to
64.4, 70.1 to 70.3, CETOP RP91H

LIQUISAFE 46

Fire Resistant

A high quality glycol based fire resistant hydraulic fluid recommended for all hydraulic systems, operating in conditions where the use of a mineral oil would present a fire hazard. Typical uses include: steel mills, casting shop machinery, furnace door closures, die casting machines and underground equipment.

Specifications

British Coal No. 570/1981
International Fluid Classification - HFC

INDUSTRIAL GEAR LUBRICANTS

A range of high performance products for industrial gear systems



LODEXOL

Mineral Oil Based

ISO VG 68, 150, 220, 460, 680

A range of industrial gear oils, designed for use in a wide range of applications, including: reduction gearboxes, direct drives, angle drives, chain drives, gear couplings, hoist/winch gearboxes, screw feeder gearboxes, travel gearboxes, swing gearboxes, turret heads, workheads, centralised circulation systems, etc.

Specifications

DIN 51517 Part 3 (1989) category CLP,
ISO 12925-1: 1996 Category CKD,
US Steel 224, ANSI/AGMA 9005-E02,
AGMA 9004-D95,
Textron David Brown No. S1.53 101, Table A2-8
Cincinnati Machine P-74 (ISO VG 220 only)

LODEXOL PG

Polyalkylene Glycol

ISO VG 150, 220, 320, 460

A range of fully synthetic gear oils designed to provide outstanding protection at all temperatures to industrial gear systems. Unlike conventional gear oils PAG fluids maintain an effective lubricating film over a wide operating temperature range, from arctic conditions to high thermal loadings. recommended for use in all types of industrial gearboxes, especially worm gear drives.

Specifications

DIN 51517 T.3 (ISO 6743/2) Type CLP,
David Brown Table 4G - 7G

Warning: LODEXOL PG Grades must never be mixed with other synthetic or mineral based lubricants.

LODEXOL FS

Fully Synthetic

ISO VG 150, 220, 320, 460

A range of gear oils, combining synthetic base fluids and powerful extreme pressure (EP) additives. They are formulated to protect against wear, oxidation, foam, rust and corrosion and provide outstanding thermal stability ensuring that gear systems running at elevated temperatures have the correct level of protection necessary for long component life.

Designed for use in: reduction gearboxes, direct drives, angle drives, chain drives, gear couplings, hoist/winch gearboxes, screw feeder gearboxes, travel gearboxes, swing gearboxes, turret heads, workheads, centralised circulation systems, etc.

Specifications

US Steel 224, AGMA 250.04,
David Brown Table 4E - 7E



AIR FORCE COMPRESSOR OILS

A range of lubricants designed and optimised for use in all compressor types

AIR FORCE 2000

ISO VG 68 and ISO VG 150
Specially formulated '2000 hour' fluids developed to meet the requirements of hydrovane compressors and other similar vane compressors. These products will ensure long, trouble-free compressor life, wherever a fluid of this viscosity is recommended by the manufacturer.

AIR FORCE 4000

ISO VG 32, 46, 68 & 100
Specially formulated '4000 hour' fluids developed to meet the needs of rotary screw compressors, ensuring long, trouble-free compressor life. May also be used in continuous operation train brake compressors and vehicle mounted or portable road breaking compressors.

Specifications

DIN 51506 VD-L Category

AIR FORCE 8000 FS

ISO VG 32, 46 & 68
A range of ester based, fully synthetic, compressor lubricants designed specifically to meet the requirements of rotary screw compressors including modern, variable speed types. They incorporate the latest additive technology and have proved to be far superior in performance to conventional oils under all conditions.

Specifications

DIN 51506 VD-L Category & DIN 51352 part 2

AIR FORCE EP22

Airline Oil

A low-viscosity airline oil, specifically designed for air tools of all types including road drills, jack hammers, air speed saws and torque wrenches. Also recommended for air motors and the lubrication of pneumatic rams and cylinders. Can also be used for general lubrication in industrial applications, such as airlubes on CNCs.

AIR FORCE FG 68

ISO VG 68
A fully synthetic, food grade compressor oil based on polyalkylene glycol technology (PAG). It offers outstanding load carrying properties and excellent corrosion protection, together with exceptional resistance to micro-pitting. Suitable for applications where a potential for incidental contact with food exists. May be used in rotary vane and rotary screw types, as well as hydraulic systems and general lubrication where a food grade fluid is required.

Specifications

This grade has been formulated with FDA compliant components and meets the requirements of 21 CFR 178.3570 (lubricants with incidental food contact). AIR FORCE FG 68 is NSF registered (no 125883) Category Code: H1.

AIR FORCE VPO HV & VPO LV

Vacuum Pump Oils

Manufactured from high quality mineral oils designed to maximise pump efficiency and vacuum performance, these oils have extremely low volatility, excellent thermal and oxidative stability, making them suitable for use in pumps operating at high temperatures. Recommended for use in a wide range of positive displacement vacuum pumps, including rotary vane, lobe, screw and reciprocating designs.

AIRFORCE PG46

ISO VG 46

A fully synthetic blend of polyalkylene glycol (PAG) and polyol esters designed specifically for use in rotary screw compressors operating in arduous working environments under severe loading conditions. This product has outstanding thermal and oxidation stability, ensuring trouble free operation up to temperatures of 200°C.



CORROSION PREVENTATIVES

A range of products providing a variety of protection times and film types

ANKOR RR

General Purpose De-watering

A general purpose de-watering fluid and thin film solvent deposited rust preventative that leaves a soft oily thin film that will impart corrosion protection for a variety of materials under indoor storage conditions.

Recommended for all general purpose de-watering applications where some limited corrosion protection is required afterwards.

Removal of the protective film is by kerosene, white spirit or similar solvents.

Protection performance:

Indoors only - 1 month

ANKOR D

Short to Medium term

A special solvent deposited product, short to medium term rust preventative. This product is particularly useful where the metal parts to be treated are wet, making it very effective as a rust preventative in damp atmospheres and all climates.

Recommended for use in machine shops as an inter-operation rust preventative for wet parts.

Protection performance:

Indoors - 12 months
Covered outdoors - 6 months
Outdoors - 3 months

ANKOR C

Medium Term

Ankor C is a solvent deposited, medium term rust preventative, for use where the treated parts are exposed to outdoor conditions. This product is particularly useful where metal parts to be treated are wet, because the chemistry of Ankor C has an attraction to the metal surface and this completely displaces all traces of water before laying down the protective rust preventing film. Recommended for medium term rust proofing, for parts stored in or outdoors.

Protection performance:

Indoors - 9 months
Covered outdoors - 9 months
Outdoors - 6 months



ANKOR WAX

Long-term

A special solvent deposited, long term corrosion preventative, that dries to leave a continuous firm wax protective coating that imparts excellent corrosion protection properties. Ankor Wax has de-watering properties and therefore can be used where the metal parts to be treated are wet. Recommended for all medium and long-term corrosion protection applications.

Protection performance:

Indoors - 3 to 5 years
Covered outdoors - 3 years
Outdoors - 2 years

ANKOR 147

Solvent free

Ankor 147 is an oil-based corrosion protective, free from hydrocarbons and other solvents, that leaves a thin oily film to impart corrosion protection for a variety of metals (including steel, aluminium and copper) under short to medium term storage dependent upon conditions.

Protection performance:

Indoors - 4 months
Covered outdoors - 2 months
Outdoors - not recommended



GENERAL LUBRICANTS

A range of products to cover a wide selection of industrial applications



ALTO

Machine Oils

ISO VG 10, 15, 22, 32, 46, 68, 100, 150, 220, 320, 460, 680, 1000

A versatile range of oils that can be used wherever a straight mineral oil with modest additive treatment has been specified. Particularly recommended for industrial use in enclosed and circulating systems, oil baths, automatic lubricators, wick oilers, spray, splash and mist lubricators and all oil-lubricated bearings, machine tool headstocks, enclosed gearboxes and vacuum pumps. These oils are also suitable for all general lubrication uses and oil can applications.

ARCATO R32, R46, R68

Refrigeration Compressor Oils

These products are manufactured from high quality naphthenic mineral oils, providing the stability and low temperature characteristics necessary for the correct lubrication and operation for this type of equipment. Can be used in all commonly found domestic, commercial, and industrial refrigeration and freezer systems, and all air conditioning systems (except in rare cases where a synthetic oil has been specified). They are compatible with commonly used HCFC, CFC and ammonia refrigerants.

Specifications

British Standard BS 2626/1975

ARIA EP

Rock Drill Oils

ISO VG 100, 150, 220

A range of oils specifically designed for the lubrication of percussion type air tools. Special lubricants are required for this application to counter the sudden drop in temperature and increase in relative humidity when air expands in the tool. Recommended for air tools of all types including rock drills, road drills, pneumatic pile drivers, jack hammers, air speed saws and torque wrenches.

Specifications

U.S. Steel 224, AGMA 250.04

ATONAL 323, 324

Heat Transfer Oils

Heat Transfer Oils manufactured from high quality mineral oils and powerful oxidation inhibitors to ensure thermal stability for high working temperatures over long periods. These grades are suitable for industrial closed systems, asphalt plants, low temperature open systems, oil filled radiators and heat shunts or wherever a mineral oil of this type has been recommended.

LIQUIMATIC VG5

Light Spindle Oil

A low-viscosity hydraulic oil ideal for lubricating high-speed zero clearance bearings on grinding machines and other applications, where a low viscosity grade of this type is requested by the original equipment manufacturer.

TRANSFORMER OIL

Electrical Switchgear Oil

Transformer Oil is recommended for use as a dielectric and coolant in all oil filled transformers, switchgear, welders and other electrical equipment.

Specifications

Meets the requirements of BS 148 (1984) Class I and II, ASTM D3487 type I and IEC publication 296 class I and II, at the time of manufacture

S-3403

Synthetic Chain Lubricant

Recommended for all chain drives working in high temperatures and difficult conditions, applications include chain grate and stoker drives, furnace door openers in steel works, roller and overhead kiln conveyors found in ceramics and brick industries.

LARGO P1

Spark Erosion Fluid

A highly refined low-viscosity product formulated for use as a dielectric fluid in spark erosion machines, where odour and evaporation losses must be kept to a minimum.

SLIDEWAY LUBRICANTS

A range of multi-functional lubricants for machining centres

ASTRA

ISO VG 32, 68, 100, 150 & 220

Recommended for slideways, tables, carriages, guides and all machining centre applications where a tacky extreme pressure lubricant is required. This range of oils may also be used for the lubrication of headstocks, cross feeds, saddles and gearboxes.



ASTRASLIDE S 68

High Performance, tack-free

Recommended for all machine tool slideways, especially modern plastic and composite slideways, tables, carriages, guides, tool stations and other machine applications where an ISO VG 68 extreme pressure lubricant is specified. May also be used in headstocks, cross feeds and saddles and also for use on the bed of wire and tube drawing machines where an oil of this type and viscosity is required.

Specifications

FZG Damage stage > 12
Cincinnati Milacron P47
(meets requirements)
US Steel 224, AGMA 250.04
ISO 6743 - L HG

MOULD RELEASE OILS

A range of products covering differing mould types and methods

TABOR 13

A high quality low-viscosity mould release oil containing low odour hydrocarbon solvent, mineral oil, reactive fat and lubricity additives. It has been specially produced for use as a multi-purpose mould release agent for use on steel or wooden moulds and provides a high quality surface finish. Does not cause stains or discolouration and is not absorbed by the concrete.

TABOR 95

A high quality concrete mould oil specially designed for production of slabs, posts and pavings where precision steel moulds are used. Provides an excellent surface finish and protects steel moulds from rust. This product is also suitable for use on wood and most plastic moulds due to the absence of hydrocarbon solvents.

TABOR 99

A high quality steel shuttering oil, that has been designed as a release agent to prevent concrete clinging to steel shuttering used in the construction industry. Gives an excellent surface finish and provides protection against rust for shuttering, keeping it in good condition and free of concrete ready for further use.

TABOR OK

A mould release agent for simple steel shuttering using wet concrete, Tabor OK will give good release and anti-corrosion properties. May also be used in a variety of other uses, including: degreasing, as a process oil and as a dielectric fluid for spark erosion.

TERZA 7060

A high quality low-viscosity mould release oil that has been specially produced for use in high rate production of fired clay, brick and concrete building products. It is an excellent release agent that prevents clay and concrete clinging to the moulds, and provides a high quality surface finish.

TERZA 7126

A mould release concentrate specifically designed to enable the end user to dilute as required. This one product can be used for a wide range of release applications and this is particularly important where there is pressure to keep inventories low, or when some user experimentation is desirable to facilitate rapid changes in end product or production methods.

TERZA M-107

A high quality low-viscosity mould release oil that has been specially produced for use in high rate production of concrete roof tiles, on the type of machines where the moulds are continuously chain driven past the pouring hopper. Does not cause stains or discolouration.



GREASES

A broad range of grease to satisfy a variety of industrial applications

K41EP, K42EP, K43EP Multi-purpose Greases

NLGI No. 1, 2 & 3

Multi-purpose lithium greases with extreme pressure (EP) properties. Recommended for all general purpose industrial applications including machine tools and bearings.

Temperature Range: -30°C to +1300°C



K2EP

Complex Grease

NLGI No. 2

A lithium complex grease providing long-term high performance under very severe conditions. Demonstrates excellent water tolerance. For all general industrial applications including bearings that require long-life high performance grease. Recommended for machine tool applications where water based flood applied coolants are in use.

Temperature Range: -30°C to +160°C

K40EP, K400EP, K4000EP

Semi-fluid Greases

NLGI No. 0, 00 & 000

Lithium extreme pressure (EP) semi-fluid greases for centralised lubrication systems and industrial machinery gearboxes, particularly where there may be leakage using gear oil.

Temperature Range: -30°C to +110°C

K46, K48

Moly Greases

NLGI No. 1 & No. 2

Lithium soap greases with EP performance enhanced with molybdenum disulphide. Both greases are designed to protect against seizure and heavy shock loads in conditions where ordinary greases would fail. Recommended for use in plain or anti-friction bearings, CV joints and other sliding applications.

Temperature Range: -20°C to +140°C

K62

Bentone Grease

NLGI No. 2

A premium quality non-melting grease for use in plain and anti-friction bearings subjected to elevated temperatures. The consistency of the grease remains stable throughout a wide temperature range, making it particularly useful in applications where melting out or dripping of grease would cause production issues or damage to materials.

Temperature Range: -20°C to +160°C

K65MS

Synthetic High Temperature Grease

NLGI No. 2

A bentone grease containing synthetic base fluid and solid lubricant additives for use where very high sliding forces, radial pressures and high temperatures are encountered. It is water resistant and has exceptional anti-wear, anti-corrosion and extreme pressure properties. Ideal for kiln car, exhaust fan and plain and rolling element bearings.

Temperature Range: Up to 600°C



K982 MAGNAPLEX

Open Gear Grease

NLGI No. 0

K982 Magnaplex is an aluminium complex grease specifically formulated for use on open gears. This product has high load carrying and adhesive characteristics, allowing it to be used where exceptionally high loads and slow sliding speeds are encountered.

Temperature Range: -10°C to +180°C

K383

Anti-seize Compound

NLGI No. 1.5

K383 is a lead free anti-seize compound, made from high quality mineral oils, non soap thickener incorporating copper powder and graphite. Excellent anti-seize properties make it ideal for lubricating brake linkages and it is also recommended as a thread lubricant on studs, pipes, casings and whenever eventual disassembly must proceed smoothly.

Temperature Range: -30°C to +1100°C

K84

Gear Grease

NLGI No. 00

K84 is a polyalkylene glycol based fully synthetic semi-fluid grease recommended for use in worm reduction units subjected to high loads. K84 imparts a low coefficient of friction and hence transmits the maximum power with the minimum temperature rise.

Temperature Range: -30°C to +140°C

K99

Water Resistant Grease

NLGI No. 2

Calcium complex grease with exceptional water resistance and good anti-corrosion properties. Recommended for use as a general purpose grease where bearings may be temporarily immersed in water and there is the possibility of corrosion from salt water or similar contaminants. May also be used in stern tubes.

Temperature Range: -20°C to +110°C

K3

Water Resistant Grease

NLGI No. 2

A premium quality grease for use in industrial applications where the presence of water and humid atmospheres can effect lubricating performance. Designed for use in all plain and rolling element bearings where water resistance is important and is especially recommended for use as a chuck grease where there is the possibility of wash-off by water based cutting fluids.

Temperature Range: -20°C to +110°C

K323

Lithium / Calcium Combination Grease

NLGI No. 2.5

An extremely sophisticated lithium / calcium base grease which incorporates modern polymer technology. This advanced grease has a high level of water tolerance, mechanical stability and adherence. Recommended for industrial applications where such items as high loads, water wash out and abrasive wear have been a recognised problem.

Operating Temperature: -25°C to +135°C



SPECIALITIES

MAINTENANCE AND TROUBLE SHOOTING PRODUCTS

MD-4

Multi-purpose maintenance aerosol, which lubricates, degreases, cleans, penetrates and dispels moisture.



SOLVENT CLEANER

An aerosol spray recommended for the fast degreasing of components. Designed to leave them chemically clean without smears or corrosive residues.

PRISE

Copper anti-seize spray for assembly and dismantling of threaded connections.

PAVAN

Water-rinsable degreaser for removing the most stubborn grease and grime from all plant and equipment.

DEIONISED WATER

Highly recommended for use in the batteries of forklift trucks and other types of industrial machinery, where regular water top-up replacement is necessary.

FLUSHING OIL

A combination of highly refined light mineral oils and detergent/dispersant additives to enhance removal of sludge and lacquers that can build up in hydraulic systems and compressors.

CLEANING

LENTO DISINFECTANT

Powerful disinfectant for agricultural and commercial use with a pleasant lavender fragrance.

LYDIAN DEGREASER

Non-caustic, water-rinsable detergent / solvent degreaser.

VIROCLEAN BIODEGRADABLE CLEANER

Non-toxic, water rinsable detergent / solvent degreaser.

CADENCE TFR

Powerful detergent blend for use in hot or cold pressure washers and steam cleaners for removal of farm dirt and traffic film.

FLOOR DRESSING GRANULES

Porous, inorganic granules for soaking up oil spills.

DESTRA DETERGENT

A concentrate ideally suited to general purpose cleaning, from hand dishwashing to heavy duty applications. Has a mild citrus odour.



HYGIENE

BARRIER CREAM

Antiseptic barrier cream to prevent skin infection and irritation.

ABGEL HAND CLEANSER

Beaded gel hand cleanser for the farm and dealer workshops.

MOMENTO

Biodegradable heavy-duty hand cleanser that uses natural solvents derived from citrus fruits to remove a wide range of substances including oil, tar, grease and bitumen.



For further advice on any of the products shown or applications not listed here, please consult our Technical Services Team.