

ANCILLIARY PROD CTS

MAINTENANCE AND TROUBLE SHOOTING PROD CTS

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 vehicles and equipment.

CARB CLEANER

Solvent cleaner to remove dirt and lacquer from: carburettors, fuel injection systems, automatic chokes and throttle linkages.

GOLDEN FILM RUNNING IN OIL

Product designed to reduce the likelihood of bore-glazing and aids the bedding in of mating surfaces in new and rebuilt diesel and petrol engines.

SUPERCLEAN MORENDO DD

Multi-functional diesel fuel additive that will improve ignition quality and injector cleanliness. This product will also enhance the lubricity of low sulphur fuels and protect certain mechanical fuel pumps from accelerated wear through 'drying out'.

GOLDEN FILM FLUSHING OIL

A mineral oil based product enhanced with detergents and dispersant additives to remove sludge and lacquers from dirty engines.

CLEANING

LENTO DISINFECTANT

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

LYDIAN DEGREASER

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

TERRALUS 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.

YGIENE

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.

GREASES

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 130°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



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



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

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

MORRIS

STEAM LUBRICANTS



MORRIS LUBRICANTS
TRADITION IN EXCELLENCE SINCE 1869

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All the products are reflective of the latest specifications at the time of going to press and are part of a continuous development programme. The company reserves the right to change formulation and specification, without prior notice to meet the latest trends and developments in lubricants and grease technology.

For more detailed information on any product and confirmation of the latest specifications contact our Technical Services Department. Full product data sheets and health and safety information is available on request.

Photography courtesy of Malcolm Ranieri, Old Glory Magazine, Vintage Spirit Magazine and Steve Hammond.



EMS 60044

FM 21756

OHS 555083

TRADITION IN EXCELLENCE SINCE 1869

MORRIS LUBRICANTS

Tradition in Excellence since 1869

Morris Lubricants have developed this bespoke product range using expertise acquired from long association with steam heritage workshops. All Morris steam products are formulated and blended with the consistency, precision and care required to comply with the strict requirements of BS EN ISO9001 2000 and BS EN ISO14001 2004. Whilst all locomotive grades have been specifically formulated to meet the specification requirements of British Rail Schedule Number MT276, more contemporary products have been introduced to suit present day operating conditions on heritage lines. The product range is supported by experienced Technical and Field Sales Teams that can provide advice on grade suitability and trouble shooting.

STEAM CYLINDER OILS

COMPOUND STEAM CYLINDER OIL 460

Lighter cylinder oil developed for steam pressures < 150 psi, saturated steam and smaller cylinders (typically < 8" bores). Containing high levels of compounding to lubricate wet cylinders and prevent corrosion even after shut down.

Typical applications:
Small scale live steam engines and locomotives.

COMPOUND STEAM CYLINDER OIL 680

Medium grade cylinder oil made for higher steam pressures < 260 psi, larger cylinder bores such as found on full size locomotives and conditions where moderate superheat temperatures are reached. The inclusion of Tallow oil compounding for higher steam pressures and heavier loads makes this grade favoured Heritage lines.

Typical applications:
Heritage Railroads.

COMPOUND STEAM CYLINDER OIL T

Medium grade cylinder oil made for higher steam pressures < 260 psi, larger cylinder bores and conditions where moderate superheat temperatures are reached. Higher levels of compounding ensure full lubrication even during boiler priming and expansion in larger, low pressure cylinders.

The inclusion of film/surface modifiers ensures water and rust resistant films during operation and long after shut down.

Typical applications:

Heritage Railroads with prolonged seasonal shutdowns. Traction, showman, ploughing and road rollers. Steam Waggons: Sentinel (Standard, Super, and DG), Yorkshire, Thornycroft, Garret and Foden.

MAINLINE 1000

An excellent cylinder lubricant for larger superheated locomotives operating on BR mainlines at high steam pressures and high degrees of superheat i.e. 250°F.

Full bodied, high viscosity oil that allows high piston speeds as well as providing lubrication under transient saturated conditions or where larger bore locos can be subject to groaning on lesser fluids.

Typical applications:

Heritage Railroads with larger Locos. Mainline operation including prolonged running conditions. Steam Waggons: Sentinel S-Type

SOVEREIGN 460 & 680

A range of straight, non-compounded oils with superior oxidation resistance even under the most arduous conditions. Specifically developed additives assist with virtually complete condensate separation, ideal for all steam engines operating with boiler condensate recovery devices from simple floatation to filters and jet condensers.

Typical applications:
Marine, Pumping and Power Plants
Hydrostatic Lubricators

BEARING OILS

STEAM CAR 1000

Formulated in conjunction with the Stanley Steam Car Owners Club, this grade allows high piston speeds and high superheat temperatures in all non-condensing steam car applications. Tallow oil compounding and film/surface modifiers ensure water and rust resistant films during operation and long after shutdown. Well adapted to Stanley and other steam cars that operate non-condensing and containing a dye that shows up well in winkers.

Not be used in condensing steam cars as the compounding cannot be easily separated in the water tank. Please refer to Sovereign 1000.

Typical applications:
Stanley and other non-condensing steamers.

SOVEREIGN 1000

Heavy duty, non-compounded cylinder oil ideal for condensing Stanley and other steamers. Made for steam pressures up through 350 psi (at the engine inlet) its high viscosity builds efficient lubricating films in dry, superheated engines.

Specifically developed additives assist with virtually complete condensate separation in the water tank for efficient oil removal prior to pumping condensate back into the boiler thus eliminating dangerous boiler scale formation.

Typical applications:
Late model Stanley, White and Doble (Except models E and F).

GOLDEN FILM BEARING OIL 220

Formulated for plain journal bearing lubrication and designed to flow with both worsted wool and cotton wick lubricators commonly found on traction engines and railway rolling stock. Golden Film Bearing Oil 220 can be applied with manual oilers, drip feed lubricators or wicking type oil cup. A superior lubricant for smaller model engines and works well on crosshead guides, link blocks, eccentric straps, pins and bearings. Also suitable for use on full size solid bearings where speeds don't normally exceed 15 mph.

Typical applications:
Heritage rolling stock. Road locomotives, showman engines, Traction Engines, plough and road rollers.

GOLDEN FILM BEARING OIL 460

Heavier than Golden Film Bearing Oil 220 it is appropriate for full size engines with large bearings, heavy loads and faster rotating speeds.

Typical applications:
Heritage rolling stock. Road locomotives operating at higher ambient temperatures and/or heavier loads. Traction engines running auxiliary equipment.



PRESERVED DIESEL ENGINE OILS

RING FREE XHD 30 AND XHD 40

Heavy-duty mono-grade diesel engine oils suited to preserved diesel locomotives. The products provide a high level of engine cleanliness and outstanding wear protection.

RING FREE XHD 20W-40R

A zinc free product designed for medium speed railroad diesel engines and complies with the performance levels specified by the Locomotive Maintenance Officers Association (LMOA) for generations 4 and 5. The product also meets the requirements of API CD/CF, Caterpillar 3600 series engines and has been granted a tentative approval for General Electric Generation 4 Long Life, and worthy of Field Trials in EMD.



SPECIALITIES

SENTINEL CRANKCASE OIL

Sentinel Crankcase Oil is recommended solely for use in the sumps of Sentinel Steam Waggons, especially the 'S' Type, where large amounts of water condensate can collect in the crankcase.

This product allows the excessive water to separate from the oil and water emulsion formed, enabling it to be drained regularly. The technology provides outstanding resistance to rust, corrosion, wear and oxidation, even in the presence of water. Also suitable for Stanley Steam Cars with wet sumps.

Please note that Sentinel Crankcase Oil should be changed on a regular basis as inevitable cylinder oil contamination reduces its ability to shed water for draining purposes.

LODEXOL SS 80W-140

A quality gear lubricant suited to the lubrication of final drive gears on Stanley Steam Cars running dry sump systems.

Please contact our Technical Services Department for further advice on the selection of the correct steam product or visit our website.

	Steam Temperature °F	Boiler Pressure psi Gauge	Steam Type:			Typical Applications:
			Saturated	Dry	Superheat	
Compound Steam Cylinder Oil 460	340 - 400	< 150	✓	✓		Small scale live steam engines and locomotives
Compound Steam Cylinder Oil T	425 - 575	140 - 260	✓	✓	✓	Showman, Road Locomotives, Ploughing Engines, Traction and Road Rollers.
Compound Steam Cylinder Oil 680	425 - 650	170 - 260		✓	✓	Heritage Railway Sentinel models: Standard, Super and DG
Sovereign 680	425 - 650	170 - 260		✓	✓	Condensing Marine and Pumping/ Power Plants
Mainline 1000	< 700	> 200			✓	Locomotives operating at speed Sentinel models: S-Type
Sovereign 1000	< 700	> 200			✓	Late Model Stanley, White & Doble Steamers (Not models E & F)
Steam Car 1000	< 700	> 200			✓	Stanley and other non condensing steamers

• Sovereign grades can be used to replace compounded grades; however, feed rates must be increased by up to 50% where wet steam is in use.

• When condensate is used for boiler feed water, the use of compounded grades not recommended.
• Where hydrostatic lubricators are used, Sovereign grades are the preferred choice.

• For steam temperatures above 700°F, consult our technical department for lubricant suitability.
• If more than one grade is possible to use, always choose the lowest viscosity.

NEW Non-Staining Formulation

