



MORRIS
LUBRICANTS

HERITAGE & STEAM PRODUCTS



PERFORMANCE THROUGH TECHNOLOGY...



PERFORMANCE THROUGH TECHNOLOGY...

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.

GUY MARTIN – A PROPER PARTNERSHIP

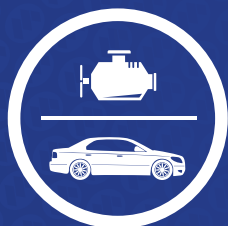
One minute he may be working under a truck, the next racing around a road circuit on a superbike or taking part in another challenge for TV, but Guy Martin remains as down-to-earth as a Lincolnshire lad could be. Now as a proud ambassador for Morris Lubricants he commented on his first visit to the factory:

"I just thought it was a few blokes in a shed in Shrewsbury, but to come here and see what goes into the blending and testing of the oils is amazing. I was really impressed by the whole Morris operation and it's now an honour to be part of it."



A COMPREHENSIVE RANGE OF WORLD-CLASS PRODUCTS, DESIGNED TO PERFORM

Morris Lubricants sell a wide range of products to cover a multitude of applications. If you have a specific product requirement that is not covered in this brochure, please call a member of our sales team on 01743 232 200, or email info@morris-lubricants.co.uk.



AUTOMOTIVE
ENGINE OILS



HEAVY DUTY DIESEL
ENGINE OILS



AGRICULTURAL
LUBRICANTS



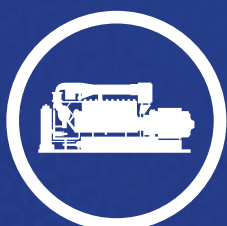
COOLANTS



BIODEGRADABLE
LUBRICANTS



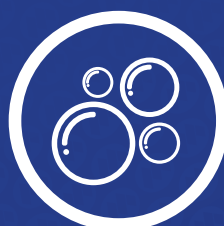
COMPRESSOR
OILS



GAS ENGINE
OILS



CORROSION
PROTECTION



HYGIENE &
CLEANING



AEROSOLS

*The quality and reputation of our products are the cornerstone of our business.
Manufactured in the UK to the most stringent OEM and international standards.*

WORKSHOP PRO



MEETING THE TOUGH DEMANDS OF THE MAINTENANCE PROFESSIONAL

Workshop Pro is a range of superior performance maintenance aerosols, workshop consumables and hand care products suitable for a multitude of demanding applications.



A range of steam cylinder oils for all types of steam power vehicles including Locomotives, Traction Engines, Steam Cars, Steam Rollers and Stationary Engines. Produced from special cylinder stock treated with fatty compounds to provide superior lubrication even if wet conditions are encountered.



Product Name	Pack Sizes	Part No.
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.	4 x 5L	CFS 005
	25L	CFS 025
	205L	CFS 205
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.	4 x 5L	CSS 005
	25L	CSS 025
	205L	CSS 205
Steam Car Compound 1000 Formulated for use in non-condensing models and with the co-operation of Stanley Steam Car owners. This advanced formulation ensures not only the correct lubrication of cylinders but also good visibility in the 'Winker'. This product can be used in all steam engines working up to pressures in excess of 250 lbs per square inch, with either saturated or superheated steam. Meets the specification requirements of British Rail schedule number MT276.	25L	COS 025
	205L	COS 205
Compound Steam Cylinder Oil T This compounded oil is ideally suited for all steam engines working typically at 175 lbs per square inch. With typical steam temperatures of 450°F (230°C). In addition to cylinders, it is recommended for valve chests, slides, linkages and general lubrication by means of mechanical applicators, atomisers or oil can.	4 x 5L	CST 005
	25L	CST 025
	205L	CST 205
Compound Steam Cylinder Oil ST (800) This non staining, robust formulation is able to withstand high piston speeds, superheat temperatures and through the use of unique, highly efficient surface additives, impart rust resistance during operation and long after shutdown.	25L	CSC 025
	205L	CSC 205
Sovereign 460 Straight Steam Cylinder Oil The Sovereign range is recommended for all steam engines utilising wet or dry steam, and as a boiler or process feed in preference over compounded products where the steam is being recovered. Sovereign 460 has exceptional water separability properties and this grade is recommended in lightly loaded engines when steam condensation needs to be recovered.	25L	SGN 025
	205L	SGN 205
Sovereign 680 Straight Steam Cylinder Oil The Sovereign range is recommended for all steam engines utilising wet or dry steam, and as a boiler or process feed in preference over compounded products where the steam is being recovered.	25L	SGS 025
Sovereign 1000 Straight Steam Cylinder Oil The Sovereign range is recommended for all steam engines utilising wet or dry steam, and as a boiler or process feed in preference over compounded products where the steam is being recovered. In engines where high temperature superheated steam over 550°F (288°C) is used, the more viscous Sovereign 1000 oil is recommended.	25L	SGT 025
	205L	SGT 205
Mainline Steam Cylinder Oil This Rapeseed Oil free, robust formulation is able to withstand higher piston speeds, superheat temperatures with Tallow oil compounding and highly efficient surface additives to ensure water and rust resistance during operation and long after shutdown or over wintering.	25L	MOT 025
	205L	MOT 205

	Steam Temperature °F	Boiler Pressure PSI Gauge	Steam Type			Typical Application
			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	125 - 225	✓	✓		Showman, Road Locomotives, Ploughing Engines, Traction and Road Rollers.
Compound Steam Cylinder Oil ST	<650°F	200 - 300			✓	Preserved Railways
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 Compound 1000	<750	>250			✓	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 750°F, consult our technical department for lubricant suitability.
- If more than one grade is possible to use, always choose the lowest viscosity.



Bearing Oils are high quality lubricants formulated to provide the necessary levels of friction reduction and wear protection required in bearing applications on steam driven equipment. The products resist water wash off and have a long service life. Bearing Oils have a special Non-Staining Formula, to avoid staining paintwork or brass components.



Product Name	Pack Sizes	Part No.
Bearing Oil 220 Classic Steam Oil Recommended for all total loss applications where the special properties of these oils are needed. They can be used for bearings, gears, slides, and general railway applications as well as for use in older types of railway rolling stock axle boxes with plain bearings. Additionally they are recommended for their ability to flow with worsted wool fibre or cotton wick lubricators often found on traction engines and railway rolling stock.	4 x 5L	GBT 005
	25L	GBT 025
	205L	GBT 205
Bearing Oil 460 Classic Steam Oil Heavier than Bearing Oil 220 it is appropriate for full size engines with large bearings, heavy loads and faster rotating speeds.	4 x 5L	GBF 005
	25L	GBF 025
	205L	GBF 205

PRESERVED DIESEL ENGINE OILS



These has been specifically formulated for the older diesel locomotive where the use of Zinc Free additives were not a prerequisite of the engine builders.

SPECIALITIES



Morris has a range of products specifically manufactured for the special requirements of certain engines using today's technology and materials.

Product Name	Pack Sizes	Part No.
Ring Free XHD 30* / XHD 40† Ring Free XHD monogrades are high quality engine oils incorporating technology for use in 4-stroke turbo-charged and naturally aspirated indirect injected diesel engines and petrol engines requiring monograde oils. Depending upon equipment requirements, they may also be used in transmissions and hydraulic systems. These products will keep components clean whilst protecting against wear, rust and corrosion. Performance Levels: API CF/CD/CC/SF, Caterpillar TO-2, Allison C3.	25L	RFT 025* RXF 025†
	205L	RFT 205* RXF 205†
Locomax 20W-40 R Designed for medium speed railroad diesel engines typically built prior to 1970. Performance Levels: API CF.	25L	LMF 025
	205L	LMF 205
	1000L	LMF 101
Locomax 20W-40 ZF Locomax 20W-40 ZF is a Zinc and Chlorine-free oil designed for medium speed railroad diesel engines. This product is manufactured from severely refined mineral base oils and specially selected performance additives. Performance Levels: API CF, LMOA Generation 7 Approval, Progress Rail internal listing for EMD 567, 645, 710 and 1010 engines.	205L	RTF 205
	1000L	RTF 101

Product Name	Pack Sizes	Part No.
Sentinel Crankcase Oil Morris Lubricants have had a long association with Sentinel and the preservation of Sentinel steam waggons. This oil has been manufactured for the special requirements of these engines using today's technology and materials.	25L	SEN 025
Lodexol SS 80W-140 Gear Oil Extreme pressure (EP) semi-synthetic gear oil designed for use in gearboxes, drive axles and other transmission systems. Extremely good cold start fluidity, ensuring fast circulation around gear systems even when the oil is cold. Performance Levels: API GL-4 / GL-5.	25L	LXE 025
	205L	LXE 205

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



A range of high-performance greases suitable for a wide range of Heritage and Steam applications, including wheel bearings, CV joints, hydraulics and mechanical components.



Product Name	Pack Sizes	Part No.
K41EP Grease Premium quality multipurpose greases for use in all anti-friction and plain bearings subjected to high shock load and vibration conditions. It is used extensively for applications throughout industry and the automotive sector. NLGI No.1	12.5kg keg	KFO 075
	50kg keg	KFO 050
K42EP Grease Premium quality multipurpose greases for use in all anti-friction and plain bearings subjected to high shock load and vibration conditions. It is used extensively for applications throughout industry and the automotive sector. NLGI No.2	36 x 400g	KFT 400
	12 x 500g	KFT 500
	3kg	KFT 003
	12.5kg keg	KFT 075
	50kg keg	KFT 050
K43EP Grease Premium quality multipurpose greases for use in all anti-friction and plain bearings subjected to high shock load and vibration conditions. It is used extensively for applications throughout industry and the automotive sector. NLGI No.3	180kg barrel	KFT 180
	36 x 400g	KEP 400
	3kg	KEP 003
	12.5kg keg	KEP 075
	50kg keg	KEP 050
K2EP Longlife Grease Premium quality multi-purpose lithium complex grease for lubricating all anti-friction and plain bearings. NLGI No.2	180kg barrel	KEP 180
	36 x 400g	KLG 400
	12.5kg keg	KLG 075
	50kg keg	KLG 050
K48 Moly Grease Premium quality multi-purpose grease for use in all anti-friction and plain bearings subjected to high load conditions. The incorporation of Molybdenum Disulphide imparts a high degree of wear protection against load, shock loading and dusty environments. NLGI No.2	180kg barrel	KLG 180
	3kg	KMO 003
	12.5kg keg	KMO 075

Product Name	Pack Sizes	Part No.
K99 Water Resistant Grease Premium quality, water resistant grease for use in industrial and marine applications where the presence of water and humid atmospheres can effect lubricating performance and be detrimental to the protection of parts from corrosion. K99 is suitable for plain and anti- friction bearings.	12 x 500g	KNN 500
	3kg	KNN 003
	12.5kg keg	KNN 075
	50kg keg	KNN 050
K383 Anti-Seize Compound Lead free anti seize compound, made from high quality mineral oils, non-soap thickener incorporating copper powder and graphite. Anti-seize properties enable this grease to work even if the joints become so compressed that most of the compound is squeezed out, or excessive temperature flashes off the oily part of the compound. A fine film of copper particles always remain in joints or threads to prevent seizure. NLGI No.1/2	12 x 500g	ASC 500
	3kg	ASC 003
	12.5kg keg	ASC 075
Magnaplex K982 K982 Magnaplex is an aluminium complex grease specifically formulated for use on open gears. This product has high load carrying and adhesive characteristics, which not only allow it to be used on gears with circumferential speeds in excess of 20m/sec, but also where exceptionally high loads and slow sliding speeds are encountered. It is free of bitumen, solvents and other components, which are hazardous to health and will not clog the spray nozzle of either manual applicators or integral automatic systems. NLGI No.0	12.5kg keg	KMA 075
Lodexol MTL Specifically designed for the lubrication of Traction Motor gears commonly found on Diesel-Electric locomotives operating on the rail networks and heritage lines. Lodexol MTL is a highly adhesive, water resistant lubricant incorporating a highly stable additive package to prevent corrosion and wear even under high stresses and loads. The absence of Bitumen or residual oils yields a product which requires no special handling requirements unlike previous formulations used over the last 50 years.	12.5kg keg	MTL 075
	50Kg Keg	MTL 050





ISO 9001
Quality
Management
Systems
CERTIFIED

FM 21756

ISO 14001
Environmental
Management
CERTIFIED

EMS 60044

ISO 45001
Occupational
Health and Safety
Management
CERTIFIED

OHS 555083

ISO 50001
Energy
Management
CERTIFIED

ENMS 619355



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UNITED KINGDOM LUBRICANTS ASSOCIATION



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www.morrislubricants.co.uk

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 lubricant 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.