

LUBRI NEWS

THE OFFICIAL
MORRIS LUBRICANTS
NEWSLETTER



SUMMER 2023



MORRIS
LUBRICANTS

Guy Martin explores “How Oil is Used” in commercial vehicles

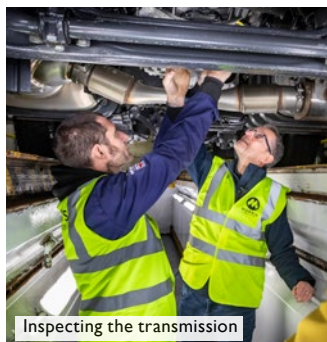
**NEW
Video
Series!**

Guy Martin has been around lorries his entire life and has officially worked on heavy goods vehicles (HGVs) for 25 years, so he definitely knows his way around a truck.

In a new video series, Guy and Morris Lubricants’ Technology Manager, Adrian Hill, chat about the current landscape of the commercial vehicle sector, discuss the many elements mechanics will need to consider when servicing both trucks and HGVs in the near future, and the various changes and challenges that HGV mechanics, operators and maintenance engineers will potentially see in the years ahead.



Ade & Guy discuss the future



Inspecting the transmission



Importance of using the correct oil



Quality and the correct choice are vital and Adrian explains to Guy the importance of selecting the correct engine oil.

"It is very important for any commercial vehicle to use the correct engine oil in order to make sure it meets the appropriate manufacturer specifications and current emission standards." Adrian Hill.

They also discuss how oils and lubricants are evolving to meet the forever changing requirements of new engine designs and the adoption of new technologies that will be found in trucks in the future.

In these four special videos, Guy and Adrian discuss important elements of the commercial vehicle sector. In episode one Guy and Adrian discuss 'Engine Oils of Today', in episode two they explore 'What Lies Ahead' and in episode three 'The Distant Future' is discussed. The series concludes with episode four, where Guy and Adrian take an in depth look at Transmission and Gear oil.

Want to learn more?

You can watch this series on morrislubricants.co.uk or by looking for the videos on the Morris Lubricants social media and YouTube channels.



OUTSTANDING HERITAGE STEAM EXPERTISE IS ALWAYS ON HAND!

Morris Lubricants continues to build upon its strong reputation in the heritage steam industry, with the expertise of its Heritage Account Manager, Simon Holroyd, a well-known figure within the sector, always on hand.

Before Simon joined the team at Morris Lubricants, he worked at the National Railway Museum for over a decade. Working at the museum as Engineering Manager, he got his hands dirty restoring some of the world's most iconic locomotives, such as Flying Scotsman.

Prior to this, he volunteered on the locomotive Duke of Gloucester for 17 years, later becoming Deputy Chief Mechanical Engineer. Throughout this time, Simon was involved in the overhaul, operation, and further development of British Railways' last steam passenger locomotive.

As an industry expert, Simon provides advice, expertise, and guidance for heritage railway workshops up and down the country, helping customers find the best solution to suit their needs and explaining the excellent benefits of using Morris Lubricants' high-quality oils, lubricants and greases. For example, when using inferior oils, locomotives operating under superheat conditions can cause the oil to form heavy carbonaceous deposits around piston rings and cylinders. These deposits are problematic as they can lead to accelerated wear. However, using oils from Morris Lubricants that



Simon is always on hand

Simon has also worked on many other iconic locomotives including the National Railway Museum's replica of Stephenson's Rocket, the restoration of Bulleid Pacific Winston Churchill and the repatriation and repairs of Dwight D Eisenhower and Dominion of Canada.

are made from high quality base oils and precise additives, can virtually eliminate this issue.

The products Simon champions include the Morris Lubricants' range of Compound Steam Cylinder Oils. For instance, Compound ST 800 and Mainline 1000 are excellent performing products, which have been specifically developed for full-size steam engines operating on both preserved lines and the National Rail network, where true superheat conditions are experienced on longer hauls and high-speed runs.

These specifically designed Compound Steam Cylinder Oils offer a non-staining, robust formulation that can withstand high piston speeds and superheat temperatures. Plus, they can impart rust resistance during operation and long after shutdown by using unique, highly efficient surface additives.

Simon commented: "I feel I have a good reputation in the industry, and I really enjoy working for a company that I have total faith in. The products that Morris Lubricants produce for heritage steam applications are superb and the benefits of using these products really do speak for themselves."



“The Compound Steam Cylinder Oil ST 800 is an outstanding hero product for this sector, and it really is very effective. Every railway is different, having a product which sits between our compound 680 and 1000, allows us to provide exactly the right product needed.”

“It’s a pleasure to go up and down the country to engineering workshops and hear people tell me how good Morris Lubricants’ products are and how they have helped maintain and preserve some of the world’s most famous locomotives.”

Simon Holroyd



Morris Lubricants has products designed specifically for the Steam & Heritage Sector

To find out more about the range of Morris Lubricants' products specifically designed for the steam and heritage sector, please visit morrislubricants.co.uk

Morris Lubricants sponsors ‘the Oscars’ of the steam and heritage sector

Morris Lubricants were thrilled to continue sponsorship for the Heritage Railway Association (HRA) Awards during 2023, which took place at the Birmingham Conference and Events Centre earlier this year.

The awards honour the exceptional achievements of those involved in steam and heritage rail.

This year Morris Lubricants sponsored the Coiley Locomotive Engineering Award, which is awarded to an HRA member who has completed an outstanding engineering project in the field of locomotive overhaul, restoration or preservation. HRA Chairman, Brian Simpson, presented the award to the winners Sittingbourne & Kemsley Light Railway, for their restoration of 0-4-2ST Premier. The 1905-built Kerr Stuart



The winning team

was painstakingly returned to as-built condition from photographic evidence and returned to steam on the former papermill line. The level of detail shown and the commitment from a small team at the SKLR saw the little ‘Brazil’ class machine triumph over a string of famous competitors.

Morris Lubricants is a key manufacturer and supplier of steam and heritage oils, lubricants and greases. These quality products have a wide number of uses and applications and the range includes bearing oils, cylinder oils and sentinel crankcase oils, all designed for use in heritage and steam engines.

For more information, please visit morrislubricants.co.uk



Guy & Ade discuss the testing procedure

Guy Explores The Quality Control Laboratory

Using quality lubricants in any of your vehicles, machinery and pieces of equipment are vitally important, so how do Morris Lubricants guarantee the standards of its high quality oils and lubricants?

Assisted by Technology Manager, Adrian Hill, Guy Martin visited the Morris Lubricants' Quality Laboratory to explore how product quality is tested and ensured. Throughout the tour of the facilities, Adrian demonstrated how important the various pieces of specialist lab equipment are to maintaining the very high standards set for Morris Lubricants' products.

Morris Lubricants upholds the quality of its oils and lubricants by using the latest cutting-edge technology and pieces of laboratory equipment to test products all the way through the manufacturing process.



Filming in the Quality Control Lab



How Oil Is Made

LAB EQUIPMENT SPECIAL

with Guy Martin

High-Temperature, High-Shear



All of this has been captured on film and you can see this series of special videos on Morris Lubricants' YouTube channel, social media channels or morrislubricants.co.uk

SHOWTIME AT THE DISTRIBUTED ENERGY SHOW

Following great success in 2021, Morris Lubricants were delighted to return to the popular trade event, the Distributed Energy Show, held at the Telford International Centre.

Technical experts from across the company were on hand to showcase the Morris Lubricants' GEO (Gas Engine Oil) range of products specifically developed for the large gas engine market.

Formulations of the Morris Lubricants' GEO range are specially designed to improve operating efficiencies of large gas engines and offer the following benefits:

- Enhanced corrosion protection
- Oxidative and nitration stability
- A wide-operating temperature range
- Low deposit forming performance
- Robust acid neutralisation system with protracted field proven drain times

Visit morrislubricants.co.uk to view the GEO range of products



Mark Brighty, Business Development Manager for Agriculture and Energy at Morris Lubricants commented: "It was fantastic to be exhibiting again at this event after the success in 2021. This exhibition gives the company the opportunity to again showcase our quality gas engine products and the additional services that Morris Lubricants has to offer. The company has some of the best technical and industry expertise and we have created a range of products that are versatile and flexible enough to support a wide-range of gas types, including natural gas, landfill, biogas and syngas."

Agrimax range shines at LAMMA 2023

Morris Lubricants were delighted to showcase the Agrimax range of agricultural oils and lubricants at LAMMA 2023, NEC Birmingham.

The Agrimax range of oils and lubricants is specifically developed for the farming and agricultural sectors. Applications for these lubricants include engines, gearboxes, hydraulics, cooling systems, oil immersed brakes and general maintenance in a wide range of agricultural equipment, including tractors, combine harvesters, mini diggers, all terrain vehicles and a variety of other agricultural machinery.



Agrimax agricultural oils formulated for use in a wide range of tractor brands

Developed using the latest formulations, the Agrimax range offers maximum performance levels, enhanced fuel efficiency, reduced running costs and improved reliability, regardless of which manufacturer of agricultural machinery is used. They also help to minimise downtime with superior operational and protective performance even in the harshest of operating conditions.

Visit morrislubricants.co.uk to view the Agrimax product range



Sales team on hand at LAMMA



Q&A with Dave Jenkins

Morris Lubricants Brand Ambassador, Dave Jenkins, is an experienced truck mechanic and a competitive truck racer. Throughout the week he runs his own commercial vehicle workshops and keeps HGVs well maintained to ensure that the country's supply chains are kept moving.

Recently Adrian Hill, Morris Lubricants' Technology Manager, met up with Dave to discuss all things trucks.

Ade: *Dave you have been working with trucks for 30 years, what differences have you seen in the oils and lubricants?*

Dave: *Even if you went back 15 years ago there were probably only one or two main oils used in trucks, but today there are lots of different ones with many different oil specifications. You have to be on the ball.*

Ade: *As a mechanic, what products do you use from Morris Lubricants?*

Dave: *I use a mixture of engine oils, transmission oils, power steering fluids, greases and workshop products, such as the Workshop Pro MD4 maintenance spray and Traffic Film Remover.*

Ade: *What have been the changes in servicing trucks over the past few years?*

Dave: *The biggest change over recent years has been the increasing complexity of the engine designs and all the different after treatment devices that are now added to trucks to help reduce emissions.*

Ade: *What types of customers do you work with on a regular basis?*

Dave: *I am very lucky in that I've got a range of customers who can be either owner drivers or businesses that own a big fleet of vehicles. Regardless of size of company the need is the same, it's important that all of these vehicles are kept on the road, as it's my customers livelihoods at stake.*

Ade: *Why it is important to make sure your customers have the best quality oil?*

Dave: *It has to be customer satisfaction and giving them peace of mind. Also, my peace of mind because I know I've done the job correctly. Commercial vehicles are used for businesses and have to earn money whilst on the road. A truck that is always in a workshop does not earn any money and can lead to increased costs and of course, lost business.*

Ade: *What benefits have you seen when using Morris Lubricants?*

Dave: *That is a very interesting question. The main thing is that my customers know that the products are not going to let me or them down. As I have said before, my customers are businesses that rely on their vehicles to be on the road, earning money. When Morris Lubricants says their products meets a specification it really does and you guys at Morris Lubricants can prove it.*



Workshop Pro Surface Conditioner

Ade: How important is it to you that Morris Lubricants make sure they have products for the latest specification of trucks?

Dave: In my own business I see a wide variety of different makes and models of commercial vehicles come through the workshops and being able to provide specific lubricants is vitally important. Technology is continually changing and the manufacturer specifications are constantly updating too. So, using Morris Lubricants oils and lubricants means that I'm keeping up-to-date with the latest developments in the industry.

Ade: Do you work with particular models of truck?

Dave: If only! I work with a wide variety of vehicles, Volvo, DAF, MAN, Iveco, Scania, Mercs, etc. and these are all different ages and mileages. It keeps me on my toes!

Ade: What things do you have to consider when planning a service on a vehicle?

Dave: I care for my customers and therefore, you must make sure you are following the manufacturer's guidelines. I pride myself in using parts and consumables that cover OEM specifications. I also make sure my customers' vehicles are maintained regularly. Meeting servicing intervals is essential and to skip a service will be costly in the long run. Old oil will cause the engine to run poorly with lack of power and there will be unseen damage being caused. If not cared for correctly, the engine may end up needing a timely and costly overhaul.

Ade: Are customers aware of the importance of using the correct oil?

Dave: This is another interesting question. I have to say, probably not, because it can seem quite complex. However, it's important to use the right oil to protect aftertreatment devices, such as DPFs, that can be expensive to replace. Lubricants may look the same, but the chemistry and the oil formulations, that you can't see, makes all the difference.



Ade: How do you see the difference between serving cars or trucks?

Dave: Maintaining trucks and cars are very different, as they have very different driving styles and requirements. Trucks will be on the road for long periods of time which puts a huge demand on the engine, transmission and gears. Whereas a car can have very short stop/start journey's which means that both vehicles require very different types of oils and lubricants to make sure they perform to the best of their ability. There's a good deal of pressure on me to ensure that I'm working at the highest level required for my customers to have complete trust in the reliability of their vehicles. My customers can't afford for things to go wrong and using Morris Lubricants products makes sure that they don't.

Ade: Dave, to finish off, do you have any questions?

Dave: I've always got questions, but the big one at the moment is where do you see the future of trucks?

Ade: That is a difficult question. It's really hard to predict, but what we can see is that new engine technologies and advanced powertrains will continue to evolve and emerge to keep pushing emissions down. It could be electrification, it could be hybrid engine technology or it could even be a hydrogen based fuel. There is a lot to consider and several key factors that need to be achieved for successful innovation. It will be interesting to see how these technologies progress, but Morris Lubricants will always make sure that they are ready for these developments.

To find out more about the Morris Lubricants range of commercial vehicle oils, lubricants and greases, please visit morrislubricants.co.uk or look out for the social media posts on Facebook, LinkedIn and Instagram.

DAVE JENKINS EYES UP TOP PODIUM IN 2023

Morris Lubricants are excited to announce continued support in 2023 for brand ambassador Dave Jenkins, as he looks ahead to another competitive season in the British Truck Racing Championship.

With Morris Lubricants oils flowing through his MAN TGX 12000cc racing truck, Dave is eager to get racing on the track. *"With Morris Lubricants' quality engine, gear and transmission oils I can feel safe in the knowledge that I have the best products maintaining my truck to keep it in peak competition condition."* Dave Jenkins



Life in the great outdoors is the choice for Jan



Jan Gilbert has logged out of her work computer for the last time and is now going to be spend more time in the great outdoors. After nearly 43 years being office-based, processing orders from customers at the company, Jan has now decided that the time is right to retire.

Jan, who joined the sales office during 1980, said goodbye to the company, where she worked for most of her life. During her career, she worked her way up to become Customer Services Supervisor, arranging orders from customers across the UK, many of whom sent her gifts and 'thank you' messages on her last day.

"I have had a lovely time working for Morris Lubricants and can't believe it has been nearly 43 years," said Jan, who lives near Shrewsbury. "I have witnessed amazing growth in the company which continues to go from strength to strength.

"It's a great firm to work for and I have enjoyed working with all the people I have met over the years. I have also had calls and lovely email messages, cards and presents from customers."

In her retirement, she plans to spend more time in the outdoors with her husband, Peter, as well as pursuing her hobbies of fly fishing and crafting – she makes special occasion cards.

She and Peter also enjoy canoeing and as a retirement present, Morris Lubricants has gifted Jan a sea kayak to fish for seabass off the Mid Wales coast.

Morris Lubricants Executive Chairman, Andrew Goddard, reminisced on Jan's time at the company

"We are all so sorry to see Jan retire, she has been a well-established and respected employee for Morris Lubricants and has been a fixture here for so long, most of us can't remember a time without her. I wish her all the very best for her retirement with Peter, and feel sure that our paths will cross again in the future."

Rob fills his last oil bottle after nearly 38 years

Rob Woodcock recently spent his last day on one of the Morris Lubricants fast product filling lines, after nearly 38 years' service at the company.

The 'go to' man for nearly four decades is looking forward to his retirement and hopes to relax, spend more time with his five grandchildren and explore various holiday destinations.

Rob says working as a Charge Hand at Morris Lubricants has been very enjoyable and rewarding.

He recalls mentoring joint Executive Chairmen, Andrew and Edward Goddard, whilst they were doing work experience placements on the filling line as teenagers.

In charge of a team of four, Rob has ensured over the years that everything runs smoothly on the fast filling line where bottles and containers from 0.5 to 5 litres are filled with the wide variety of oils and lubricants that Morris Lubricants produce.



"When I first joined the company, I worked as a packer for three months before moving to the filling line and I have been running it ever since," said Rob. "I am now ready to hang my boots up whilst I am still young and fit enough to enjoy my retirement."

Morris Lubricants sponsors local Cricket Club

Morris Lubricants are pleased to announce a new sponsorship partnership with Knockin and Kinnerley Cricket Club (KKCC).

The sponsorship will see Morris Lubricants' logo feature on all KKCC adult playing shirts, as well as introducing company signage around the ground.

Knockin and Kinnerley Cricket Club Chair, Hugh Morris, said, "It's fantastic opportunity to align with such a well-known and respected business as Morris Lubricants. Our club will benefit from both the support and connection with the Morris Lubricants brand, and we very much look forward to developing the relationship over the coming years.

As part of the partnership, we've offered a fun, friendly, game of cricket for our KKCC select XI vs a Morris Lubricants employee team in the late summer and we can't wait to



Hugh Morris, Club Chair, Knockin and Kinnerley Cricket Club, Andrew Goddard, Executive Chairman, Morris Lubricants, Patrick Evans, Committee Member, Knockin and Kinnerley Cricket Club

welcome them along to experience the atmosphere and facilities at our great club."

Andrew Goddard, Executive Chairman for Morris Lubricants, commented "It's fantastic to be able to support grassroots sports, especially when they form a vital part of the local community and Knockin and Kinnerley Cricket Club certainly does that. Cricket clubs and other sport clubs help to promote fitness and wellbeing as well as offering a place for people to meet and relax and it's great to get involved".

EMPLOYEES RAISE £13,842 FOR CHARITY

Employees of Morris Lubricants have helped to raise £13,842 for Hope House children's hospice and the team have pledged to carry on fundraising for the charity throughout the rest of 2023.

Last year, the company took part in various fund raising events, which included a 125 mile bike ride, a "Bake Off" competition, various raffles, a quiz night, a football match and family fun day.

Morris Lubricants' Executive Chairman, Andrew Goddard, commented, "raising £13,842 for a local charity in Hope House is a great team effort by the employees of both companies. It shows tremendous community spirit and support for Hope House which is a wonderful charity that does phenomenal work."

Looking towards this years activities, it will be much of the same except there will be a charity cricket match and the big event planned for later in the year will be to walk the entire 177-mile Offa's Dyke path.

Bekki Fardoe, area fundraiser for Hope House, said: "We are really grateful to Morris Lubricants for supporting us as their charity of the year throughout 2022 and raising a staggering £13,842 for the children and families that we provide vital support for.



Employees raise over £13,000

"The money they have raised is going to make a huge difference in ensuring we can continue to be here for every family that turns to us.

"We are over the moon that the staff have chosen to support us for another year and I can't wait to hear about the activities that are planned for 2023".

For further information of the progress of the various fund raising events, please visit morrislubricants.co.uk or look out for the posts on the Morris Lubricants social media channels.

hope house ty gobaith
children's hospices



New Ford 1.5L EcoBlue Turbo Diesel Engine Oil Launched

Technical Advisor Ryan Wooley gives insight into the new engine oil

Morris Lubricants has launched Multivis ECO FE 0W-20, a new low viscosity, high performance engine oil that has been formulated for use in Ford's 1.5L EcoBlue turbodiesel engines.

The new Multivis ECO FE 0W-20 satisfies the demands of Ford's 1.5L EcoBlue turbodiesel engines, complying with the performance requirements of the Ford WSS-M2C952-A1 original equipment manufacturer (OEM) specification.

PROTECTING COMPONENTS

Ford's 1.5L EcoBlue turbodiesel engines place high demands on the oil to protect the engine from timing chain wear and turbocharger deposits. Over time these issues can cause a lack of efficiency, poor fuel economy or component failure. The use of Multivis ECO FE 0W-20 will help to protect components from wear and tear and corrosion, while promoting improved levels of cleanliness.

To safeguard Ford's 1.5L EcoBlue turbodiesel engines under a variety of driving conditions, the new engine oil provides a strong ultra-thin oil film around engine components. This not only minimises internal energy losses that promotes power transfer to the wheels, but contributes towards component protection under load.

Using Multivis ECO FE 0W-20 will also help protect engine components during critical cold start-up conditions due to the oil's enhanced low-temperature flow properties.

As smaller, direct fuel injection engines are developed, turbocharging will be essential to keep power outputs up and the engine oil will need to protect turbochargers that operate at high temperatures and pressures. Multivis ECO FE 0W-20 has been formulated to control high temperature deposits and sludges, promoting efficient operation, improving fuel economy and reducing emissions, including CO₂.

Ryan Woolley, Technical Advisor at Morris Lubricants, explains: "owners of Ford vehicles with a 1.5L EcoBlue turbodiesel engine may now find their car out of warranty and want to select an independent garage for servicing and repairs, rather than using the OEM's branded oil."

"Our new Multivis ECO FE 0W-20 oil is the ideal solution to help protect these 1.5L EcoBlue turbodiesel engines from several potential issues and give those in the automotive industry an alternative supplier option."



Ryan continues, "with a selection of oils and lubricants to suit a wide range of vehicles, at Morris Lubricants we tailor the chemical profiles and formulations of our products to ensure maximum after-treatment device compatibility, allowing garages a one-stop shop for all of their customer's needs."

HYBRID ELECTRIC TECHNOLOGY

Morris Lubricants' Multivis ECO FE 0W-20 is also recommended for vehicles using hybrid electric technology, as well as being suitable for other passenger car engines, including turbo-charged and supercharged versions, requiring a low viscosity grade.

Readily available in 5 litre containers, Multivis ECO FE 0W-20 has been formulated primarily for use in the following Ford models fitted with the 1.5L EcoBlue TDCi engine: Ecosport (2017-), Focus IV (2018-), Kuga III (2019-), Connect (2018-), Connect MPV (2015). Further information can be found at morrislubricants.co.uk

Product Update: LYDIAN DEGREASER - Now Blue

Lydian Degreaser has been reformulated to provide a higher flash point. This modification has resulted in a colour change from green to blue. This is purely cosmetic and has no effect on the performance of the product.

Lydian Degreaser is ready for use straight out of the bottle. Now blue coloured, the emulsifiable fluid is manufactured from a mixture of hydrocarbon solvents and a non-ionic detergent. This powerful degreasing formulation acts by splitting the bond between solid dirt and oily matter, so that the surface can then be washed clean with water. It has an extremely effective cleaning action on all surfaces, even at low ambient temperature.

Lydian Degreaser is non-caustic, it will not corrode metal parts and washes away cleanly without leaving any harmful or corrosive residues on the surfaces.

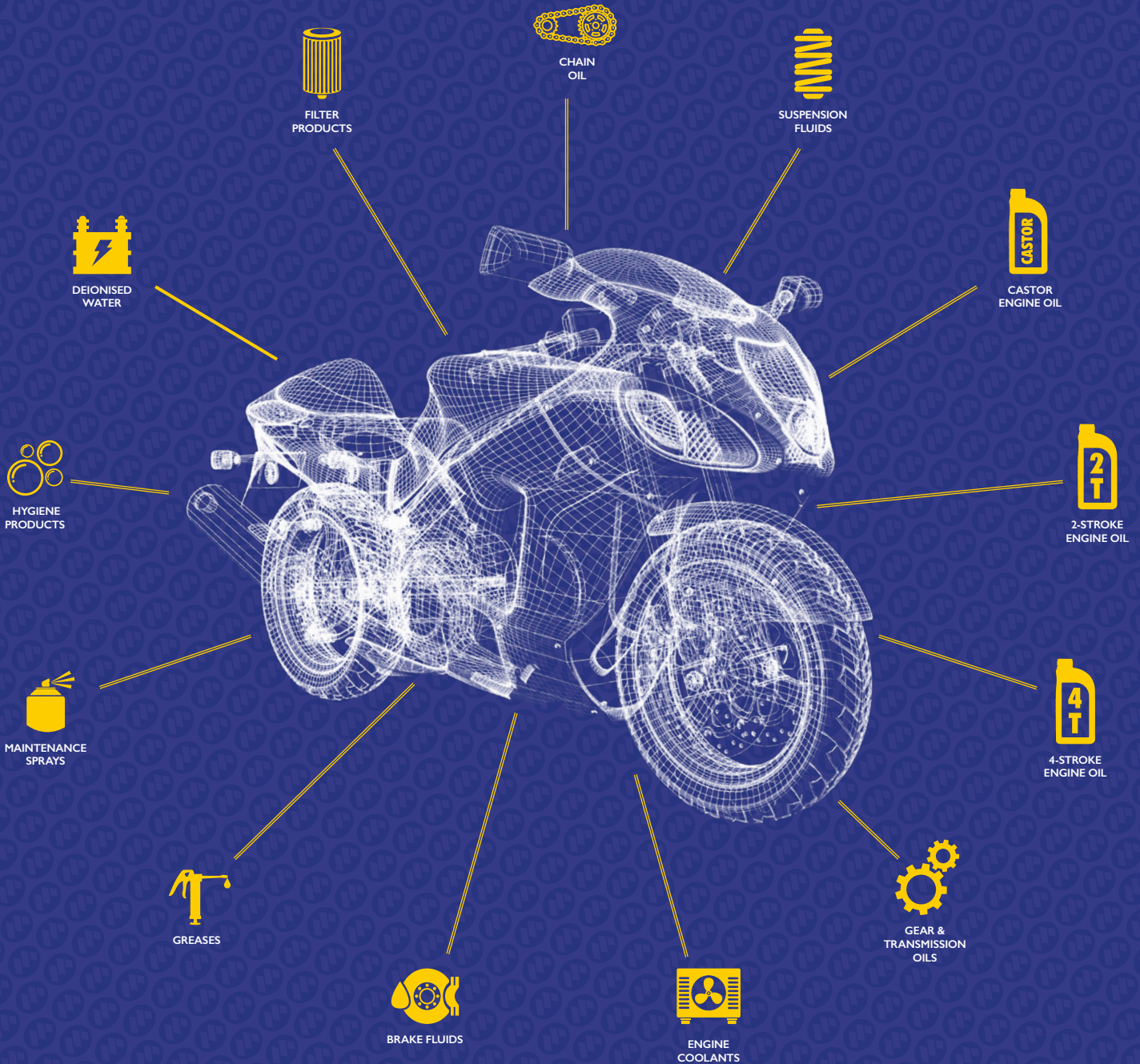


Lydian degreaser is highly effective in the removal of oils, greases, grime and certain wax coatings from metals. The product is ideal for:

- Cleaning engine bays
- Cleaning chassis
- Cleaning precision parts and components

For more information please visit morrislubricants.co.uk

Did you know..?



**Morris Lubricants
supplies more than
just motorcycle
engine oils!**

Yes that is right, Morris Lubricants has a range of motorcycle products that includes castor engine oils, 4-stroke and 2-stroke engine oils as well as engine coolants, filter cleaners, suspension fluids, maintenance sprays, greases, brake fluids as well as gear and transmission oils, all designed to help keep your motorcycle in tip top condition.

HIGH PERFORMANCE MOTORCYCLE OILS, GREASES AND LUBRICANTS

The Morris Lubricants Race range of motorcycle oils have been specially formulated for the high demands expected when riding motorbikes, motor tricycles, all terrain vehicles (ATVs), mopeds and scooters including those using wet clutches.

Race

The Morris Lubricants Race range has a product suitable to help ensure perfect engine performance, and protect components. Each of the products has been formulated to exceed the highest industry standards including API and JASO to help ensure reliability and smooth running.

Utilising the latest technology in oil formulations, Morris Lubricants' Race mineral and synthetic motorcycle oils help with high revving, extreme temperatures, heavy loads and long rides.

Using the correct motorcycle oil from the Morris Lubricants Race range can help you achieve optimum fuel efficiency, clean running and maximum power.



MOTORCYCLE LUBRICANTS, GREASES AND MORE...

As well as motorcycle engine oils, Morris Lubricants also provides fork oils, coolants and antifreezes, maintenance sprays, filter cleaners, brake fluids and cleaning products, to help keep any type of motorcycle in tip top condition and running smoothly.

Each of these products is designed and manufactured using the highest quality raw materials and then tested to the highest standards to help ensure optimum product performance and motorcycle reliability.



To view the full range of Race Motorcycle products, please visit: morrislubricants.co.uk/products/moto.html

TRUSTED AND USED BY GUY MARTIN...

"Engine technology is very important when it comes to performance and I am honoured to trust Morris Lubricants products with my motorbikes."

Guy Martin, Morris Lubricants' Brand Ambassador.

To find out more, watch the latest video series with Guy Martin on the Morris Lubricants website morrislubricants.co.uk, social media and YouTube channel.





ADE'S TOP TIP: The importance of using the correct oil

Do you remember when automotive workshops had a big tank of oil that provided the lubricant for pretty much any vehicle that made it onto a service ramp? Then, it all changed as Euro Standards for emissions were introduced and an evolution in lubrication started to take place. Today as the drive towards Euro 7 compliance is starting to bite and hybrid systems are now commonplace, vehicle hardware and lubricant formulators are being pushed again into new territories.

PASSENGER CAR EVOLUTION

We are now seeing the next phase of evolution in passenger car engine oil technology with a move to even thinner grades to satisfy legislation that is driving down the level of CO₂ and lowering general emissions down to the next level. There may still be a demand for 5W-30s, but 0W-20s, 0W-30s, 0W-16s and even 0W-8s are on the increase. 0Ws provide improved cold start fluidity, helping the oil to circulate more readily when cold, thus reducing internal drag on start-up, therefore using less fuel and ultimately producing less CO₂ emissions. Thinner SAE 0W-20s, 0W-16s and 0W-8s offer reduced levels of internal friction at running temperature, once again making the engine more fuel efficient and reducing CO₂ output. But, as with their 5W-30 predecessors, each OEM has a different take on the finer points of engine protection and performance.

IMPROVED FUEL EFFICIENCY

Remember, however, we are purely talking viscosity here and not performance level. These lower (thinner) viscosity grades, together with friction reducing materials, have taken a big step towards improved fuel efficiency (by reducing internal drag), but we have also seen an increase in the number of OEMs putting their stamp on these products. We have seen the likes of BMW, VAG (Volkswagen Audi Group), JLR (Jaguar Land Rover), PSA (Peugeot-Citroën), Ford and many others demand attributes that have resulted in the fragmentation of the passenger car engine oil market.

If that wasn't enough, there is a new phenomenon known as LSPI (Low Speed Pre-ignition) in petrol engines. As OEMs have moved to improve the fuel efficiency of petrol engines, smaller and smaller units have been subjected to turbocharging and supercharging and increased injection pressures. In these engines the effect manifests itself at low speeds during a burst of rapid acceleration. Premature detonation of the fuel/air mixture causes an abnormal peak in cylinder pressure which can, in extreme circumstances, cause severe engine damage. The solution to this new problem lies in modifying engine design, engine oil formulations and fuel quality. All the major OEMs have now adopted new lubricant testing protocols to ensure that the latest oil formulations do not promote this issue.

CHALLENGES POSED

Hybrid vehicles and engines with stop/start regimes also pose challenges for the engine oil, where fuel and water dilution can lead to issues such as oil pump wear and bearing corrosion. Therefore, the engine oil is specifically designed to work within these demanding duty cycles.

There is now a large population of engines out there fitted with after-treatment devices allowing them to comply with the latest emissions legislation in terms of exhaust gas quality. Diesel engines may be fitted with diesel particulate filters (DPFs) and Adblue systems, petrol with gasoline particulate filters (GPF) and of course three-way catalytic converters (TWC). All of these after-treatment devices rely on the correct oil chemistry to ensure their operational efficiency. Lubricants that create a high level of ash (formed when a small portion of lubricant is burnt in the combustion chamber) will prematurely block DPFs and GPFs. Lubricants with high levels of certain additive elements (sulphur and phosphorous) will poison Adblue catalysts and TWCs, making them ineffective.

Car owners can't get away with using the incorrect oil, as electronic sensors are continually feeding data back to the engine management system. When things start going wrong, it may select a reduced power mode (limp mode) or stop the engine from starting altogether, until the problem is fixed.

The good old days of one oil to fit everything has gone and despite everyone's best efforts to simplify the situation, there is still a high degree of differentiation required.

Beware of lubricants purporting to be the answer to this complex situation, with a long list of OEM qualifications. There is no simple answer.

SUMMARY

The correct oil is a critical fit and helps to ensure the operational efficiency of the engine, protection of aftertreatment devices, fuel efficiency and reduced emissions. It will also provide components with the optimum levels of protection between services, reducing the likelihood of expensive damage and inconvenient downtime. Always seek technical advice on lubricant selection as a tailored product may be required.

Unsure what oil you need? Then call the Morris Lubricants Technical help desk on 01743 237541 or use the company's whatoil feature on the website morrislubricants.co.uk. Simply enter a registration number for a car and the recommended oil is shown.



MORRIS LUBRICANTS TRAINING ACADEMY - IT'S FREE!

If you want to learn more about how Morris Lubricants products perform in a wide variety of vehicles and equipment, the benefits seen when using a quality oil and lubricant and also how to select the correct product, you should register for the Morris Lubricants Training Academy.

These free online bite size webinars are run by technical lubricants expert and Morris Lubricants' Technology Manager, Adrian Hill, with each session focusing on a different product group or industry.

Adrian has presented a variety of lubricants conferences all over the world, including in India, New Zealand and Iraq, just to name a few, as well as working with brand ambassador Guy Martin and being a keynote speaker at national exhibition events, such as Automechanika. Adrian has worked within the lubricants industry for nearly forty years, which is why lubricants training from Adrian will be training that you cannot find anywhere else.

These sessions are free to attend, fun to watch and easy to follow, and all attendees will receive a certificate of attendance.



Adrian's training is always well received

To book onto any of the FREE training sessions below, or for further information on the courses, please email marketing@morriss-lubricants.co.uk

WORKSHOP PRO

WORKSHOP PRO PREMIUM HAND CLEANSER

Are you finding it difficult to get your hands really clean after working hard?

Workshop Pro Premium Hand Cleanser is a professional hand scrub made from natural ingredients to help remove dirt, grease, oil, tar, bitumen and paint.

Workshop Pro Premium Hand Cleanser is pH neutral to the skin, is free from silicone, free from any solvents and free from plastic micro-beads. To help scrub

your hands, it contains a finely ground rounded off walnut shell, that is a waste product and will not clog any drains.

Workshop Pro Premium Hand Cleanser cleans deep into the pores, providing lasting skin-protection. It also replaces the skin's natural oils as it contains high levels of natural emollients from plant extracts and maintains the skin moisture at optimum levels.



WORKSHOP PRO TRAFFIC FILM REMOVER

Is your vehicle dirty and hard to get clean?

Morris Lubricants' Workshop PRO Traffic Film Remover can make light work of the dirty work when cleaning a car, van, truck, motorbike, tractor, digger or any type of filthy vehicle.

With a mix of surface active agents, sequestrants and alkaline builders, Morris Lubricants Workshop PRO

Traffic Film Remover is formulated to remove road film from vehicles. Developed in Scandinavia, it will decrease the need for mechanical agitation. The product rapidly lifts road film, dirt and grime from paintwork, metal surfaces, glass and rubber.

Morris Lubricants Workshop PRO Traffic Film Remover is simple to use, effective in hard and soft water areas and is biodegradable.

WORKSHOP PRO ALL SEASONS SCREEN WASH

Is your windscreen clear enough to see through?

Workshop Pro All Seasons Screen Wash is highly concentrated and can be used neat or diluted to suit precise weather conditions. It is not just for the winter months - as the name suggest it can be used all year round! This professional screen wash is highly effective and will cut through dirt, mud and grime to leave a clean smear-free windscreen. The special formula also helps wiper blades glide smoothly over the screen and eliminates annoying judder. Don't let a dirty windscreen impede your vision!



To find out more about the Workshop Pro range, visit the Morris Lubricants website morrislubricants.co.uk

Ground Force for perfect open space maintenance

As the spring months turn into the summer sun, it is time to make sure gardens, parks, summer sports pitches, green sites and public spaces are looking their best. Did you know that Morris Lubricants has a specific range of products designed for those who maintain these open spaces?

Yes, that's right, Morris Lubricants' Ground Force range of horticultural oils, lubricants and greases, covers everything from 2 stroke and 4 stroke engine oils, gear and transmission oils, greases, hydraulic oils, chainsaw oils, cutter bar oils, maintenance sprays and much, much more.

The Ground Force range from Morris Lubricants, helps to ensure horticultural equipment including all-terrain vehicles (ATVs), strimmers, lawnmowers, chainsaws and many more stay well maintained and don't breakdown when you need them most.

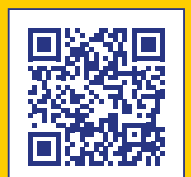


To find out more about this range, visit the Morris Lubricants website morrislubricants.co.uk

Want to find out What Oil you need?

Simply visit whatoildoined.com or morrislubricants.co.uk and input the vehicle registration or select from a wide range of makes and models to identify recommended oils, lubricants and greases.

Scan me...



whatoildoined.com
morrislubricants.co.uk

Trusted by Experts



Be like Guy, use the Workshop Pro range - trusted by maintenance professionals

- MD4 Multi Purpose Maintenance Spray
- Fully and Semi Synthetic Chain Lubricant
- White Grease With PTFE
- Anti Seize Compound
- Solvent Cleaner
- Carb Cleaner
- Solvent Degreaser
- Surface Conditioner

morrislubricants.co.uk

For more information contact:
01743 232 200