



RHA NATIONAL DIRECTORY OF

Hauliers

2009/10

£100

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HELPING TO REDUCE YOUR FUEL COSTS cont'd

increased average drain intervals from 30,000 to 100,000 miles, depending on the vehicle – which means lower servicing costs and less time off the road. While its advanced Eclipse™ fuel treatments not only improve fuel efficiency, they help reduce emissions too. Increased efficiency, extended service intervals, greater reliability and longer engine life – when you specify Millers Oils, the benefits quickly start to add up.

Environmental legislation moves on all the time. Within the next five years, the use of biodiesel fuel is expected to become mandatory across Europe. While the introduction of biodiesel fuel will unquestionably reduce negative effects on the environment, at the same time there's strong evidence that it impacts directly on engine performance and durability:

- Biodiesel is prone to both fuel dilution and fuel concentration in the sump.
- With biodiesel, oil viscosities can change and lubricants quickly go out of grade.
- Viscosities can also increase due to oxidation.
- Increased levels of piston deposits can occur.
- There's an increased likelihood of sludge forming.
- Create bacterial and fungal contamination in the fuel/tank.

All these factors can lead to performance problems, higher maintenance costs and even reduced engine life.

But, with the advanced range of lubricants and fuel treatments, Millers Oils is already developing new solutions designed to protect engines and gain maximum performance from the next generation of diesel fuels. Fuel treatments include:

Eclipse: a revolutionary new fuel additive that not only increases fuel efficiency, lowering costs, but it also lowers emissions and cleans injectors. Designed to work with all types of diesel engines, especially Euro IV and Euro V emission compliant vehicles. Also compatible with Euro III and older vehicles and mobile plant. Add to the bulk fuel tank or individual vehicle tanks in the ratio 1 part to 1000 parts fuel (1ml/litre).

Eclipse Powercide Plus: a specialist diesel fuel treatment, which combines an effective treatment for the prevention of bacterial and fungal contamination with improved cetane and detergent additives for increased fuel efficiency, lower emissions and cleaner injectors. To eradicate bacterial and fungal contamination first use Eclipse Shock Dose then follow up with Eclipse Powercide Plus for continued protection against further contamination. Add to the bulk fuel tank or individual vehicle tanks in the ratio 1 part to 1000 parts fuel [1ml/Litre].

Eclipse Shock Dose: a highly effective diesel fuel treatment, which helps to eradicate bacterial and fungal contamination problems. Should be used where bacterial and fungal contamination of the fuel and fuel system has already occurred. Add to

fuel in the ratio 1 part to 1000 parts fuel [1 ml/Litre]. Eclipse Powercide Plus should be added to the fuel to offer continued protection against further contamination.

For further information, visit:
www.millersoils.co.uk

What if you could achieve over 10% improvement in fuel economy and CO₂ emissions by simply pouring a bottle of liquid into your car's engine? The launch of the revolutionary new engine oil additive, BORPower, has seen that fantasy become a reality.

BORPower, available in the UK and Ireland through **NanoBoron Ltd**, is a unique engine lubricant that has been developed using the chemical element Boron and the hi-tech science of nanotechnology. Put simply, the product reduces engine friction to a very low level, leading to more efficient operation. That means improved fuel economy and lower CO₂ emissions.

Independent testing carried out by the respected TÜV NORD Technical Inspection Agency in Germany, and the South West Research Institute in the USA, has validated the claims for BORPower. Additional evaluation has also been carried out in the UK by Roger Dennis, a well-respected transport engineer with 40 years of testing experience. Roger tested BORPower at the Motor Industry Research Association, MIRA, following the IRTE/BTAC type1 test cycle. The test demonstrated a reduction by 10.8% in fuel consumption after addition of BORPower. Following a 'before and



BORPower® : Nano Boron Crystal Lubricant

“Ultimate Nanotechnology Engine Treatment”

- Reduces fuel consumption (8-15%)
- Extends engine life
- Lasts up to 40,000 miles
- Reduces CO₂ emission (8-15%)

10.8 % fuel saving
validated in the UK
at MIRA through
IRTE/BTAC procedure.



NANOBORON LTD

271 Regent Street

LONDON, W1B 2ES

0845 463 5438

www.nanoboron.co.uk

info@nanoboron.co.uk

NANOBORON
saving money & the environment



**BORPOWER 0 km - 200,000 Km
Manufacturer Limited Warranty**

When you use one of the BORPOWER products properly and in every oil change in your engines, we hereby give a FREE limited Public Warranty Insurance that will protect all your engine's lubrication-related parts and all engine components from and including Engine air intake right through to exhaust outlet pipe that has been proved to have failed as a direct result of the correct amount of BORPower being added to the engines lubricating oil in the recommended dosage for 200,000 km's in passenger cars, vans and pickup trucks. For heavier commercial vehicles above 9000 pounds, the insurance lasts up to 100,000 km's.

Claims are limited to \$10,000 for passenger cars, vans and pickup trucks , \$ 30,000 for heavy commercial vehicles

“What more could you want...!”

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after' trial with the product, he concluded: "I've never seen results as good as these. They are genuinely amazing."

BORPower® combines the use of the chemical element boron and nanotechnology. Nanotechnology deals with the tiny world of atoms and molecules. To put that scale into context, the comparative size of a nanometer to a metre is the same as that of a marble to the size of the earth. The raw boron goes through

the nanotechnology process and becomes Mono-Crystalline Diamond Powder (MCDP). MCDP is a diamond-like composite material, frequently called the 'Brother of Diamond' due to its hardness ranking just below diamond, the hardest substance known to man.

BORPower works on all four-stroke engines, whether they run on Petrol, Diesel or LPG. And it couldn't be easier to use – shake the bottle then tip the contents in with your engine

oil. It then starts to work immediately, but the best results will be achieved after 200 miles (320km). Because of the way the product coats the engine components, the results last long after any subsequent oil change and up to 40,000 miles.

BORPower® works by building up boron metal films in the engine's inner parts which prevent direct contact between the frictional surfaces responsible for abrasion, friction and heat. It helps by cooling



HELPING TO REDUCE YOUR FUEL COSTS cont'd

down these frictional surfaces and sealing them. BORPower® contains two active ingredients: MCDP and nano boron. Under high pressure between two metal surfaces, the MCDP crystals are pressed into the material to form a coating. This coating is near diamond-hard, but at the same time very slippery. The nano boron forms a low-friction, solid lubricant film between these coatings. MCDP not integrated into the metal surface act also like tiny ball-bearings, which further reduces friction and abrasion by transforming the sliding friction into much less abrasive rolling friction.

For further information, visit:
nanoboron.co.uk

The ever pressing issues of global warming and the economic recession have undoubtedly had an influence on the haulage industry and numerous companies have implemented changes to make their fleet more efficient. Developing a method to reduce costs and emissions is a complicated process, but is a priority for companies for whom fuel is their highest operating cost.

ReD Fuel Cards (Europe) Ltd believes there are a number of ways to aid efficiency of your fleet, and one that is usually overlooked is the maintenance of company fleet vehicles. By having your vehicles serviced properly you can help the environment and avoid wasting fuel. Studies have highlighted that fuel accounts for approximately 40% of all operational costs, whilst a fleet that requires maintenance can see a further 15% increase, an expense that businesses could easily avoid.

Equally, businesses are able to improve fleet efficiencies by adopting a fuel card solution that offers all the information necessary to manage and control your fuel purchasing. A fuel card can be of high value, as it enables companies to make considerable savings on fuel prices. As well as cost savings being a significant motivator for fuel cards, there are many more benefits to take advantage of.

Appropriately tailored fuel card solutions can ease administration by consolidating all fleet-related costs and services into one system. The use of a fuel card will not only benefit the manager but also the drivers, as drivers no longer need to collect receipts, thus reducing administration with one single VAT-compliant invoice for all transactions. Furthermore, online account management is not only secure but faster and more flexible when monitoring your account. These facilities allow you to run bespoke reports to analyse your usage patterns to identify where savings can be made, resulting in more cost-effective operations.

Most fuel cards can be tailored to meet the needs of a specific company, so it is essential to recognise that there is not one type of solution which 'fits all'. The package is dependent on the type of the operation, the fleet and the activity required, so finding the right fuel card provider should offer you the opportunities you need to overcome everything that your business requires to manage your fuel purchasing.

For further information, visit:
www.redplc.com

It is inevitable that in the near future an alternative to fossil fuels will have to be found. Natural reserves will not last for ever, prices are ever increasing and pollution and the impact on the environment can no longer be ignored. Whilst current technology can provide alternatives, none are without drawbacks which prevent them from becoming the fuel of the future. One contender is hydrogen. This has long been acknowledged as potentially the best fuel to use in internal combustion engines. The drawbacks of this fuel are that it is difficult to store and transfer safely and that to produce it requires large amounts of energy, involving burning fossil fuels!

As technology improves there will probably come a time when hydrogen fuelled vehicles become viable as solutions to the current problems are found. Until this time there is a way of using hydrogen to *supplement* fossil fuels to achieve a more efficient burn, resulting in lower fuel consumption and reduced emissions. The small amount of hydrogen required can be generated on demand eliminating the need for storage vessels and dangerous refilling procedures. It can be produced chemically, requiring no external power. However, this method is flawed in that it is difficult, if not impossible to control. The alternative method is by electrolysis of water. This process requires an electrical supply to break down the water into hydrogen and oxygen and can be controlled.