

# Nanotechnology aims to beat rising fuel costs



**IN the wake of red diesel fuel increases and recession belt-tightening, what if you could achieve a 15 per cent improvement in fuel economy and CO2 emissions by simply pouring a bottle of liquid into your boat's engine? Nanotech Marine says the launch of a revolutionary new engine oil additive, BORPower, aims to make the fantasy a reality.**

BORPower is an engine lubricant that has been developed using the chemical element Boron and the hi-tech science of nano-technology.

Put simply, the product claims to reduce engine friction to a very low level, leading to more efficient operation. That means improved fuel economy and lower CO2 emissions, says Nanotech.

BORPower products are the result of more than 15 years of research and development. It is aimed at every user

– boat owners, industrial machinery users, private motorist, company car users, taxi and HGV operators, commercial fleet managers.

According to Nanotech, independent testing carried out by TUV NORD Technical Inspection Agency in Germany has validated the claims for BORPower and additional evaluation has also been carried out in the UK by Roger Denniss, a transport engineer with 40 years of testing experience.

Roger Denniss tested BORPower at the Motor Industry Research Association, MIRA, following the IRTE/BTAC type1 test cycle. The test demonstrated a reduction by 10.8 per cent in fuel consumption after addition of BORPower. Following a 'before and after' trial with the product he concluded: "I've never seen results as good as these."

Using breakthrough nanotechnology in conjunction with Boron, a chemical element with unique properties, the product

is a world first. The performance benefits are derived from its ability to create an almost frictionless environment inside the engine, says Nanotech.

And the company adds that perhaps the most impressive benefit is that it can actually boost the power output of your engine. Testing was carried out at MAHA in Zurich, Switzerland, in 2007 using a Renault engine. Over a series of runs, a BPH improvement of up to nine per cent was achieved.

It works on all four stroke engines, whether they run on petrol, diesel or LPG. And it is easy to use to use – shake the bottle and tip the contents in with your engine oil.

It starts to work immediately but the best results will be achieved after ten to 15 hours of engine operation. Because of the way the product coats the engine components, the results last long after any subsequent oil change.

One of the key benefits of using

BORPower is that it saves you money, for example it can lower fuel consumption by up to 15 per cent, says Nanotech. Take a 43-foot power boat with twin engines of 370HP each and an official combined fuel consumption figure of 16.1 GPH which could be reduced to 13.7GPH.



Even a ten per cent improvement would make a real difference to the owner's bank account, with more than £1,226.00 being saved on fuel costs over a year\*.

Nanotech says testing has revealed that it can improve the quality and performance of the engine oil and even the life of the engine itself by up to 100 per cent. It is recommended that every user follows the servicing schedule of their engine but use of BORPower can cut the amount of work required at each service interval.

*\*Assuming a fuel consumption of 16.1GPH with 200 hours of engine operation per year and the cost of the fuel £3.81 per gallon, the annual cost would be £12,268.22. A ten per cent saving on your fuel cost would be £1,226.62 per year.*

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