



24th January 2019
Ref: Atmosclear/Testing

Dear Atmosclear team,

Following the fitment of the Hydrogen unit we have covered over a 3000 running hours between 2x 125KW John Deere diesel generators and would like to give some feedback on these units.

Firstly I am Chief Marine engineer with over 35 years of experience to date with diesel engines to the highest level, during this period I have been exposed to many products with high claims be it magnets, additives, electrical devised etc. so I was very sceptical from the outset of installation.

On first sight and after an interesting discussion it was clear it was a well-made and impressive product whilst retaining end user simplicity.

Both our marine diesel engines were used as the test bench which have been used on fixed loads and data monitored from new.

Upon fitment an immediate difference was seen of hydrocarbon deposits on the surface of the water at over-board discharge and a slightly smoother power delivery.

Calculations were made in normal operating conditions over a 6 month period and figures shows up to 10% fuel saving are achieved with no detrimental effects on the engines noted.

We always complete regular oil analysis through a laboratory and the carbon deposits had risen after installation then dropped off much lower values on following samples indicating the internal cleaning process as described.

Testing on-board during the last full season has shown drastic reduction of carbon deposit on the water and air-borne emissions of diesel particulate matters which is important to the welfare of guests and crew along with environmental damage reduction.

I am very excited by these hydrogen generating units, there rugged, simple and brilliantly engineered we will continue to operate and monitor over the forth coming period and my biggest mystery is why to date this technology is not being embraced by engine manufactures?

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