

Case Studies Marine

Trial results of Polish steam ship company - PZM & Polsteam

First trials where conducted for 2 years (from September 2009 to August 2011) on the PZM & POLSTEAM company bulk carrier, M/S Giewont

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	2010	Panamax	New Times S Jingji		Bahamas	79649
Name				M/S GIEWONT		
Туре				Panamax 2 Bulk carrier		
Weight				80.000 DWT		
Main engine				MAN 7S50MC {11.620 Kw}		
Auxiliary engine				3 Wartsila 645W4L20 {645 Kw}		
Main engine consumption				34.4 MT/day		
Auxiliary engines consumption				2.15 MT/day		
Boiler consumption				1.99 MT/day		
Average consumption savings (%)				3 to 4 %		

First trial period conclusion

- In similar service conditions and with the same load on main engine, the fuel consumption is 3 to 4% lower when REDUXCO combustion catalyst is added with a volume of 12 ml of catalyst per metric ton (MT) of fuel.
- The test led to a saving of more than 580 MT of fuel on a total of 19,500 MT used
- USD 348,000 were saved
- No negative impact on the elements tested
- Highly positive impact during maintenance phases

Savings calculations include the cost of Reduxco catalyst but do not consider cost savings from reduced maintenance

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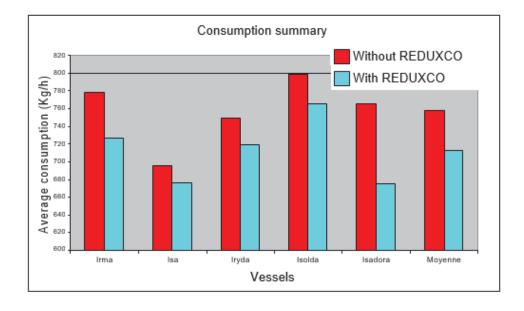
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Second trials where performed (from September 2010 to January 2014) on five Handy size bulk carrier vessels, also owned by the company PZM & POLSTEAM

Names	M/S Irma, Isa, Iryda, Isolda, Isadora		
Туре	Handy size bulk carrier		
Weight	35.000 DWT		
Main engine	MITSUI MAN B&W 5S50MC5 {6730 Kw}		
Auxiliary engines	3 MAN B&W L16/24 {545 Kw}		
Daily consumption	20 MT/day		
Average consumption savings (%)	4,45 to 5,93 %		



Second trial period conclusion:

- No incident occurs during more than 24,000 hours of testing on these 5 vessels
- In similar service conditions and with the same load on main engine, the fuel consumption is 4,45 to 5,93% lower when REDUXCO combustion catalyst is added – with a volume of 12 ml of catalyst per MT of fuel.
- The test led to a saving of more than 890 MT of fuel on a total of 20,000 MT used
- USD 535,000 were saved
- Highly positive impact on the injectors, pistons and rings during maintenance phases