

## TO WHOMSOEVER IT MAY CONCERN:-

This is to testify the performance and savings in O&M cost (operations & maintenance) with respect to application of Polytron products on our offshore assets. We have used Polytron MTC and Fuel Conditioner in a pilot test on our standby gensets. As part of the pilot test we have done vibrations and oil analysis before and after the application of Polytron products, which indicated improvement in performance after application Polytron products.

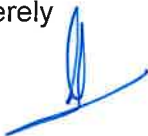
Following the results of pilot testing, we started trials on one of our offshore drilling rigs. On this rig we had an issue with one EMD 645 1500 HP engine. Its crankshaft had abnormal wear and had a tight spot while rotating. As a result we had two separate failures on the connecting rods. We were sourcing alternate engine to replace the bad one. The project was scheduled with planned shutdown of operations. Based on recommendation by Polytron representative, and the demos given to management, we decided to try and apply Polytron MTC to the engine oil and to the drive gearbox gear oil. After few weeks of operation we could see the difference in performance, so we decided to postpone the planned shutdown for engine replacement. These trials were going on during 1<sup>st</sup> quarter of 2017 and the issue referenced above has not surfaced again. As a result we cancelled the plan of engine replacement. During the subsequent engine service and mini-overhaul, we have seen that the oil was extremely black with all the carbon deposits suspended in it as a result of the cleaning process of MTC. There were no carbon deposits on engine parts and interiors, and we could just wipe off the blackish oil with a clean rag and put the machine back in service, which normally takes many man hours just to clean. From oil analysis of samples taken during subsequent routine services, we learnt that the wear and tear process came down considerably. The engine operating temperature also came down.

Because of the good results we have seen on this engine, we slowly started incorporating Polytron MTC and Fuel Conditioner on our sister vessels across the fleet. Polytron products that we are currently using are MTC, Fuel Conditioner, EP-2 Lithium Complex grease and Penetrating lubricant. We are also pleased with the performance of the Penetrating lubricant that saved us many man hours during unplanned / shutdown maintenance activities.

We thank Polytron and their Indian division for their valuable innovations in the maintenance industry. Special thanks to Mr. B. Ravindranath from the Indian team. We wish Polytron all the best for the future endeavors and definitely recommend their MTC, Fuel Conditioner, Penetrating Lube and grease for our types of applications.

Thanks and Regards.

Yours Sincerely



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