



Sanford Limited Havelock & Marlborough

Bypass filtration trial summary

Sanford Limited is a large and long established fishing company devoted entirely to the harvesting, farming, processing, storage and marketing of quality seafoods and aquaculture products.

STAGE ONE TRIAL

By their very nature (engines located below the water line in confined spaces) marine vessels are difficult to service. Sanford are looking at ways of reducing the cost and effort needed to service their vessels' engines each month and the Astrea bypass system was identified as providing a possible solution.

As a stage one trial, we fitted an Astrea bypass filtration unit to a Scania D12 engine on the vessel San Sinnika. Instead of removing the oil after 250 hours, the Astrea filter was replaced and an oil sample was taken. After 500 hours, another oil sample was taken and the results compared.

Prior to installing the Astrea bypass filtration system, Sanfords conducted an oil service/ filter change every 250 hours which resulted in approximately 10 to 12 services per year.

CONCLUSION

Fitting the vessel with Astrea bypass filtration filter units shows significant cost savings, both in labour and consumables as the oil service requirement was reduced by 100%. An ISO code of 17/16/13 at 500 hours indicated that the fuel was more than six times cleaner than it had been at 250 hours with an ISO code of 20/19/16. The trial results were particularly impressive as far as the removal of water in the oil was concerned due to the marine environment this vessel operates in. Stage one was so successful that Sanford will be extending the trial into a stage two, part of which will be to extend the service interval to 750 hours, and test accordingly.

Results

Oil six times cleaner after 500 hours of use than at 250 hours.

100% removal of water from oil.

Oil drain intervals have doubled from 250 hours to 500 hours.

86% reduction in amount of contaminants present in engine oil.

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