



SMARTGAINS + + +™

DISCOVER HOW A CAREMAX™ SEAREADY CHECK HELPED TO AVOID \$175K OF EXTRA COSTS



FOCUS

During a scheduled visit to an offshore supply vessel to check the performance of Castrol HLX 40, our Technical Service Engineer undertook a CAREMAX™ SeaReady check. Castrol Caremax SeaReady focuses on eliminating any human mistakes that can happen during the build and operation.

Our engineer;

- Cross-checked and confirmed lubricant recommendations
- Checked the lube recommendation labelling was correct
- Discussed UOA scheduling

IMPROVE

A number of recommendations were given to the crew, advising them to take corrective action to resolve issues or mistakes that could have impacted on the operation of the vessel and result in a financial penalty for the owners.

Key findings:

- Missing bilge pumps.
- Two separate refrigerant systems, not one as listed. The refrigerant in use was also added to the lubricant chart for information purposes.
- Incorrectly labelled cargo oil pumps / fuel oil cargo pumps.
- Incorrectly identified Glycol / slop pumps in the lubricant chart.

Additionally our experts identified that grease filled coupling on the FWD azimuth thruster, was marked incorrectly as filled with 'oil' in permanent marker. This small observation prevented damage to the forward thruster and hence the risk of efficiency loss.

The sampling regime of the vessel was also been optimized against the MLA, so that they will use extended sampling on the correct basis for optimal monitoring of the equipment at the same time as the contract is utilized to its full potential.

MEASURE

By improving efficiencies through optimizing the products used we reduced oil consumption and oil waste. But by also identifying a number of missing and incorrectly identified pieces of equipment, which could fail if no or an incorrect lubricant was used, our experts helped the customer avoid over \$175,000 of potential costs.



IT'S MORE THAN JUST OIL. IT'S LIQUID ENGINEERING.





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SMARTGAIN AREA	IMPROVEMENT	COST TO CUSTOMER TO IMPLEMENT CHANGE	CREATED VALUE PER YEAR
••• Update to LRS	Hrs of consultancy time at \$150 per hr	N/A	\$750
•• Missing lubricant recommendations – equipment failure	Missing bilge pump – \$600 Compressor – \$2000 General pump – \$600 6hrs extra order handler time – \$75 per hr = \$450 Labour to replace parts 4 hrs @ \$150 per hour = \$600	N/A	\$4,250
•• Incorrect lubricant recommendation due to incorrect OEM model	Failure of cargo oil pumps. 2hrs repair time at \$150 = \$300, plus replacement part at \$2000	N/A	\$2,300
•• More efficient use of UOA	0 samples less per year @ \$60 = \$600	N/A	\$600
••• Reduce oil consumption due to change to Castrol HLX	309 litres @ \$1.65 per litre to 823 litres @ \$2.21 per year	N/A	\$338
•• Reduced waste oil	486 litres @ \$0.50 per litre	N/A	\$242
•• Cleaning	Reduction of 2 cleans per 5 year overhaul @ \$4,000 each. (0.4 per year)	N/A	\$1,600
• Wrong label on – azimuth thruster	Resulting failure – requires dry dock to repair or replace Repair \$20k plus dry dock (2 days @ 10k) and off hire costs (5 days at \$25k per day)	N/A	\$165,000
•• SMARTGAINS AGGREGATION			\$175,080

••• Castrol verified values •• Credible assumptions based on market knowledge • Estimated mitigated costs, risk, or created value.
Examples based on combined results from separate customers. SmartGains results can vary depending upon the type of equipment used, its maintenance, operating conditions, and any prior lubricant used.
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