OIL ANALYSIS REPORT

ERIC FRANK KOHLER 33F4GMFN0005 - STARBOARD GENSET

Sample No: VPA048418

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION Sample Number VPA048418 VPA046806 Sample Date 20 Sep 2023 07 Apr 2022 Machine Hours 1969 967 **Oil Hours** 0 0 Oil Changed Not Changd Not Changd NORMAL Sample Status NORMAL **OIL CONDITION** Visc @ 100°C cSt 13.3 15.4 Base Number (BN) mg KOH/g 10.0 9.2 Oxidation (PA) % 78 57 CONTAMINATION Soot % % 0.2 0.3 % Nitration (PA) 65 65 Sulfation (PA) % 58 55 % Glycol NEG NEG Fuel % <1.0 <1.0 Silicon ppm 5 8 Sodium 4 3 ppm Potassium ppm **||** <1 3 WEAR METALS 14 Iron ppm 9 5 Copper 5 🔲 ppm **||** <1 < 1 Lead ppm Tin 0 < 1 ppm Aluminum 2 0 ppm 2 Chromium **||** < 1 ppm Molybdenum 33 5 ppm Nickel 0 0 ppm Titanium **||** <1 < 1 ppm Silver ppm 0 <1 Manganese **||** <1 < ppm Vanadium <1 <1 ppm **ADDITIVES**

Calcium	ppm	1658	1446	
Magnesium	ppm	551	743	
Zinc	ppm	955	1155	
Phosphorus	ppm	775	1043	
Barium	ppm	0	0	
Boron	ppm	65	125	

CY MARINE LLC

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Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

 Depot:
 VPCYMPOM

 Unique No:
 10661549

 Signed:
 Doug Bogart

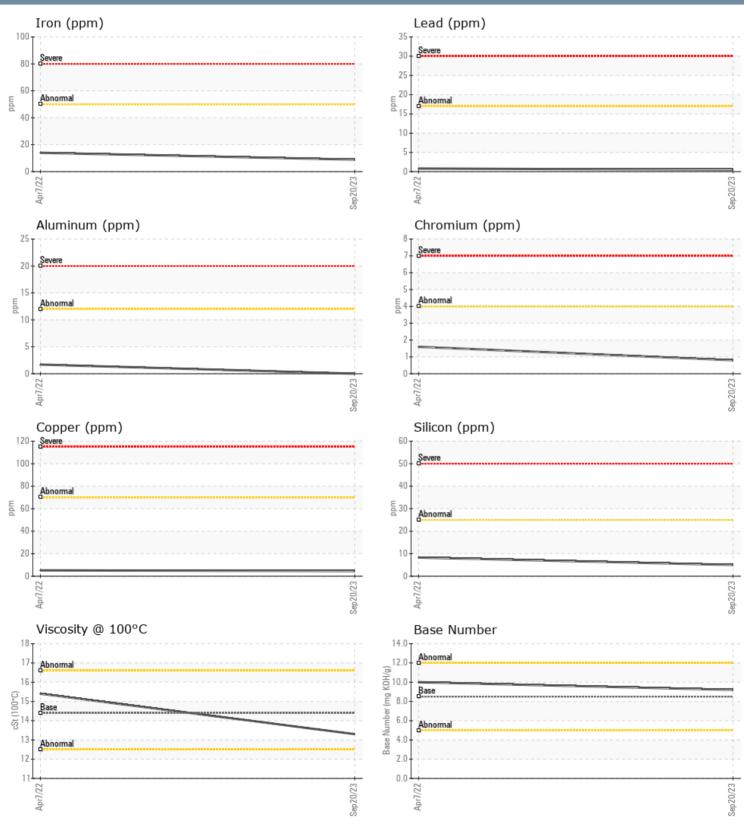
 Report Date:
 26 Sep 2023



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GRAPHS



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