OIL ANALYSIS REPORT

MEYERHARDT MURRAY VOLVO PENTA 70112005052 - STARBOARD DIESEL ENGINE

Sample No: VPA059784

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION Sample Number VPA059784 VPA041965 23 Feb 2024 Sample Date 16 Nov 2022 Machine Hours 0 158 0 0 **Oil Hours** Oil Changed N/A N/A NORMAL NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.46 12.5 Base Number (BN) mg KOH/g 10.0 11.0 Oxidation (PA) % 53 61 CONTAMINATION % NEG NFG Water % Soot % 0.1 0.2 Nitration (PA) % 36 50 % Sulfation (PA) 49 57 Glycol % NEG NFG Fuel % <1.0 <1.0 Silicon 6 15 ppm Sodium ppm **||** <1 0 Potassium 2 2 ppm WEAR METALS 6 Iron ■ <1 ppm 2 36 Copper ppm Lead < 1 ppm 1 🗌 Tin ■ <1 <1 ppm Aluminum 1 < 1</p> ppm Chromium 0 < 1 ppm Molybdenum ppm 57 62 Nickel 0 🔲 0 ppm Titanium ppm 0 🔲 0 Silver 0 0 ppm Manganese **||** <1 < 1 ppm 0 0 Vanadium ppm

ADDITIVES				
Calcium	ppm	948	1089	
Magnesium	ppm	914	911	
Zinc	ppm	1224	1210	
Phosphorus	ppm	1066	1030	
Barium	ppm	0	2	
Boron	ppm	4	2	

 Depot:
 VP867279

 Unique No:
 10898861

 Signed:
 Doug Bogart

 Report Date:
 26 Feb 2024

Harry's Marine Service LLC 1141 N. Citrus St. Orange, CA US 92887 Contact: TARAH AULD info@harrysmarine.com T: (714)771-7899 F:

Diagnosis

No corrective action is recommended at this time. 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 acceptable for the time in service.

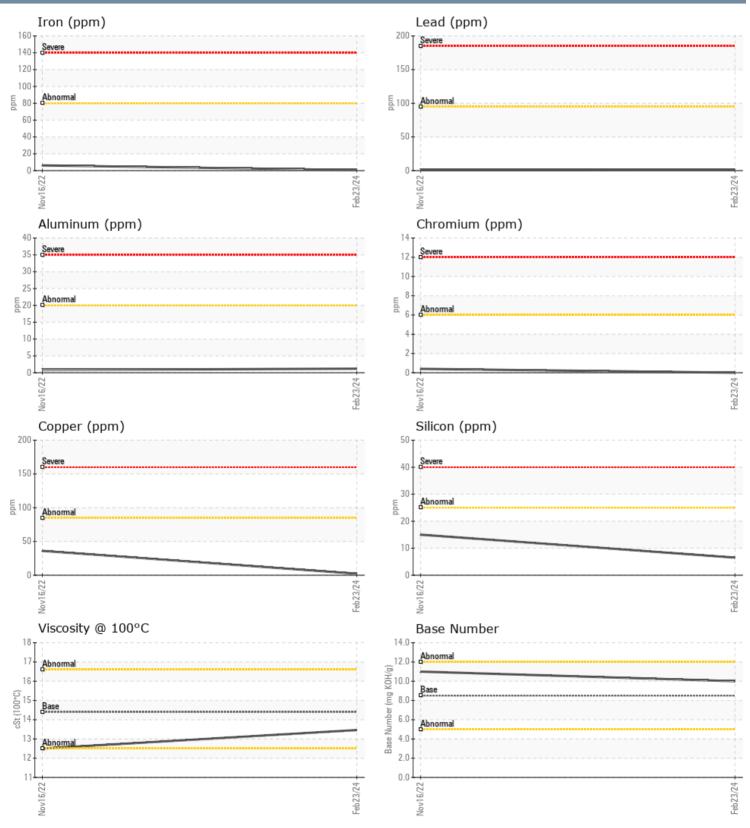


Contact/Location: TARAH AULD - VP867279

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GRAPHS



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