OIL ANALYSIS REPORT

VOLVO PENTA

MATTHEW SHARPE SAM CUMMINS/NORTHERN LIG D170172956 - GENSET

Sample No: VPA059279

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION Sample Number VPA059279 VPA043237 20 Mar 2024 Sample Date 20 Jan 2023 Machine Hours 143 132 0 **Oil Hours** 0 Oil Changed Changed Not Changd NORMAL Sample Status NORMAL **OIL CONDITION** Visc @ 100°C cSt 13.0 13.4 Base Number (BN) mg KOH/g 10.0 9.7 Oxidation (PA) % 57 57 CONTAMINATION % NEG NFG Water % Soot % 0 0.1 Nitration (PA) % 38 42 % Sulfation (PA) 50 52 Glycol % NEG NEG Fuel % <1.0 <1.0 Silicon 6 9 ppm Sodium ppm **||** <1 0 Potassium 0 2 ppm WEAR METALS Iron ■ <1 2 ppm 0 < 1 Copper ppm Lead 0 🔲 ppm 1 Tin 0 < 1 ppm Aluminum **||** <1 1 ppm Chromium ppm 0 < 1 Molybdenum 59 55 ppm Nickel 0 ppm Titanium ppm 0 0 Cilver nom

Silver	ppm			 	
Manganese	ppm	0	 <1	 	
Vanadium	ppm	0	<1	 	
ADDITIVES					
WUDILIAE2					
Calcium	ppm	1133	1202	 	
Magnesium	ppm	1022	957	 	
Zinc	ppm	1287	1298	 	
Phosphorus	ppm	1101	1034	 	
Barium	ppm	0	0	 	

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Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703 F: (206)784-8823

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 acceptable for the time in service.

 Depot:
 VP794951

 Unique No:
 10941503

 Signed:
 Don Baldridge

 Report Date:
 27 Mar 2024

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3

ppm

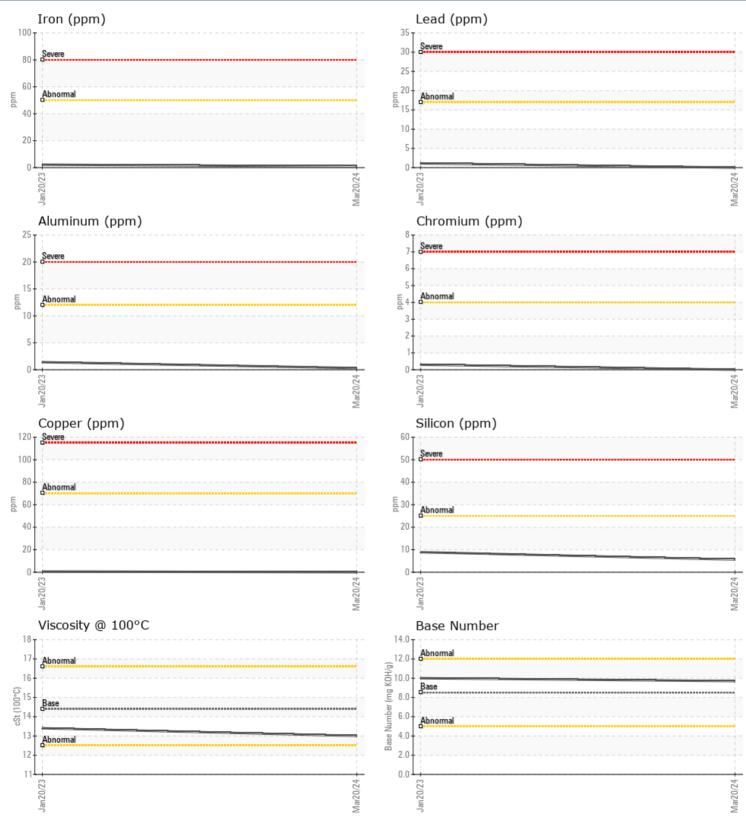
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Contact/Location: WILLOW YANARELLA - VP794951

OIL ANALYSIS REPORT



GRAPHS



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