OIL ANALYSIS REPORT

JAKE FARLEY NORTHERN LIGHTS 8642-36503C - PORT GENSET

Sample No: VPA051502

Oil Type: CAT DIESEL ENGINE OIL 15W40

SAMPLE INFORMATION Sample Number VPA051502 Sample Date 14 Aug 2023 Machine Hours 3 3 **Oil Hours** Oil Changed Not Changd NORMAL Sample Status **OIL CONDITION** 13.6 Visc @ 100°C cSt Base Number (BN) mg KOH/g 9.8 Oxidation (PA) % 50 CONTAMINATION % Water 0.040 % Soot % 0.1 Nitration (PA) % 46 % Sulfation (PA) 49 Glycol % 0.0 Fuel % <1.0 Silicon 20 ppm Sodium 12 ppm Potassium 2 ppm WEAR METALS 56 Iron ppm 6 Copper ppm Lead **||** <1 ppm

Tin	ppm	■<1	 	
Aluminum	ppm	0	 	
Chromium	ppm	2	 	
Molybdenum	ppm	55	 	
Nickel	ppm	0	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	<1	 	

ADDITIVES				
Calcium	ppm	2172	 	
Magnesium	ppm	720	 	
Zinc	ppm	1292	 	
Phosphorus	ppm	1142	 	
Barium	ppm	2	 	
Boron	ppm	181	 	

Edward`s Marine and Sons

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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. The water content is negligible. Test for glycol is negative. No evidence of salt water present in the oil. 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:
 VP551029

 Unique No:
 10618327

 Signed:
 Doug Bogart

 Report Date:
 30 Aug 2023

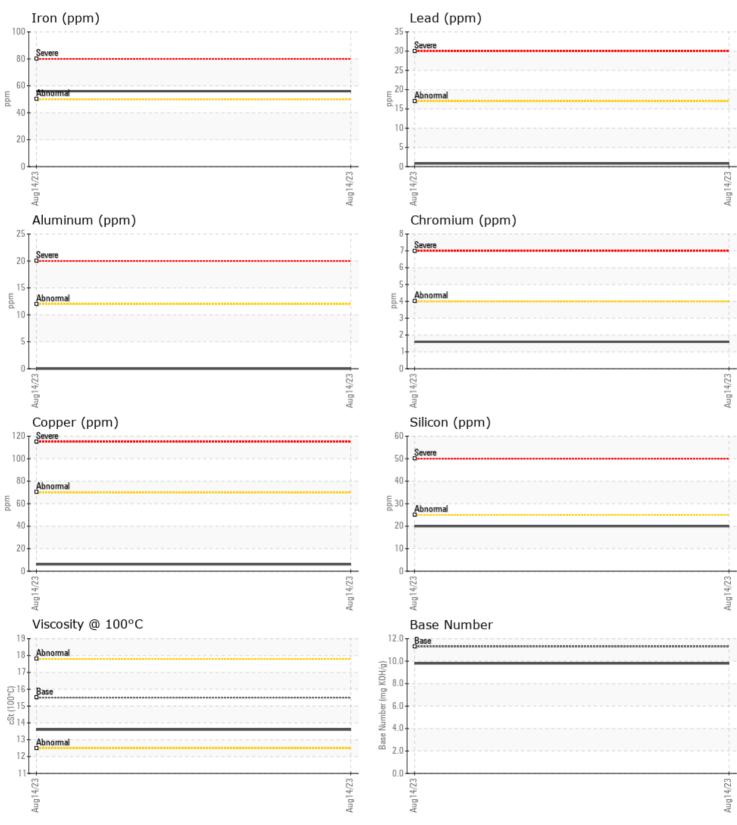
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OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: Edward Bartholme - VP551029