OIL ANALYSIS REPORT

ROBERT HANDY VOLVO PENTA 2006018971 - STARBOARD DIESEL ENGINE

Sample No: VPA037901

Oil Type: CHEVRON DELO 400 SDE SAE 15W40

SAMPLE INFORMATION

Sample Number		VPA037901	 	
Sample Date		20 Oct 2023	 	
Machine Hours		520	 	
Oil Hours		30	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.9	 	
Base Number (BN)	mg KOH/g	8.6	 	
Oxidation (PA)	%	59	 	
CONTAMINATION				
Soot %	%	0.1	 	
Nitration (PA)	%	43	 	
Sulfation (PA)	%	58	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	5	 	
Sodium	ppm	0	 	
Potassium	ppm	0		

WEAR METALS

Iron	ppm	2	 	
Copper	ppm		 	
Lead	ppm	0	 	
Tin	ppm	■ <1	 	
Aluminum	ppm	2	 	
Chromium	ppm	0	 	
Molybdenum	ppm	89	 	
Nickel	ppm		 	
Titanium	ppm	0	 	
Silver	ppm	□ <1	 	
Manganese	ppm	0	 	
Vanadium	ppm	0	 	

ADDITIVES

Calcium	ppm	1340	 	
Magnesium	ppm	457	 	
Zinc	ppm	🔲 1090	 	
Phosphorus	ppm	936	 	
Barium	ppm	0	 	
Boron	ppm	422	 	

Maritime Fabrications Inc

920 W Pearle Jensen Way, 920 W. Pearle Jensen Way LACONNER, WA US 98257 Contact: Mark Crandall markc@laconnermaritime.com T: (360)466-3629 F:

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:
 VP153319

 Unique No:
 10725442

 Signed:
 Doug Bogart

 Report Date:
 03 Nov 2023

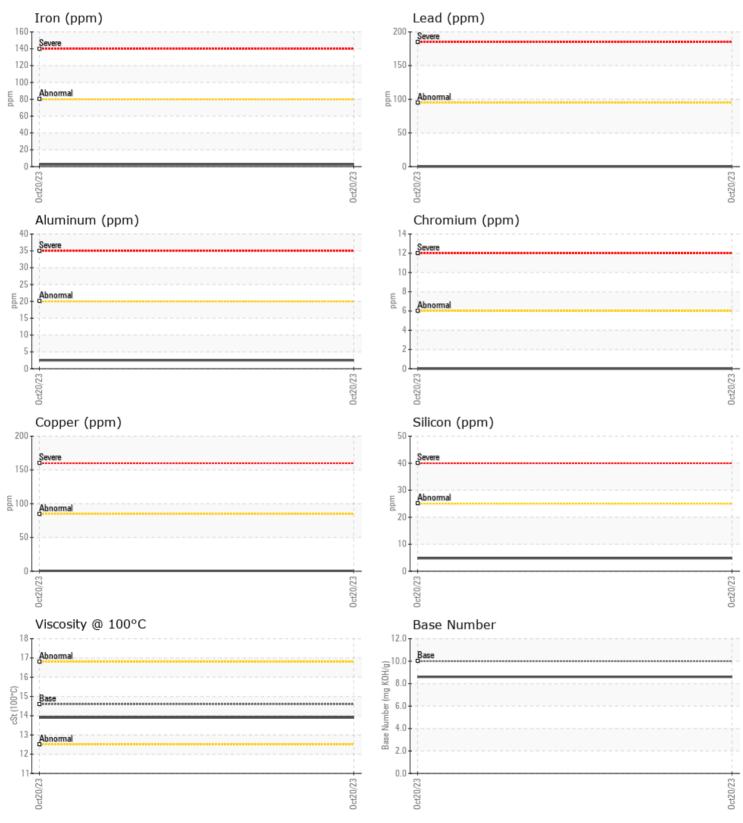
Contact/Location: Mark Crandall - VP153319



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GRAPHS



Report Id: VP153319 [WUSCAR] 05997082 (Generated: 11/13/2023 13:34:11) Rev: 1

Contact/Location: Mark Crandall - VP153319