OIL ANALYSIS REPORT

VOLVO PENTA 2071177000 - STARBOARD DIESEL ENGINE BRIAN BRUCE SAM

Sample No: VPA060040

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

JAMPLE INFORMATI				
Sample Number		VPA060040	 	
Sample Date		15 Feb 2024	 	
Machine Hours		857	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.2	 	
	mg KOH/g	9.4	 	
Oxidation (PA)	%	55	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.6	 	
Nitration (PA)	%	53	 	
Sulfation (PA)	%	53	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	4	 	
Sodium	ppm		 	
Potassium	ppm	2	 	
	ppm			
WEAR METALS				
Iron	ppm	1 4	 	
Copper	ppm	26	 	
Lead	ppm	10	 	
Tin	ppm	■ <1	 	
Aluminum	ppm	2	 	
Chromium	ppm	1	 	
Molybdenum	ppm	61	 	
Nickel	ppm	3	 	
Titanium	ppm	 <1	 	
Silver	ppm	<1	 	
Manganese	ppm	 <1	 	
Vanadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1051	 	
Magnesium	ppm	861	 	
Zinc	ppm	1098	 	
Phosphorus	ppm	869	 	
Barium	ppm	 <1	 	
Boron	ppm	54	 	

or Marine LLC - Coastal Marine - 152124 0 11th Ave. NW ATTLE, WA 98107 ntact: WILLOW YANARELLA vice@coastalmarineengine.com 206)784-3703 206)784-8823

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sample at the next service interval monitor.All component wear rates e normal. There is no indication of v contamination in the oil. The BN sult indicates that there is suitable alinity remaining in the oil. The ndition of the oil is acceptable for e time in service.

Contact/Location: WILLOW YANARELLA - VP794951

Signed:

Report Date:

VP794951

10889467

Sean Felton

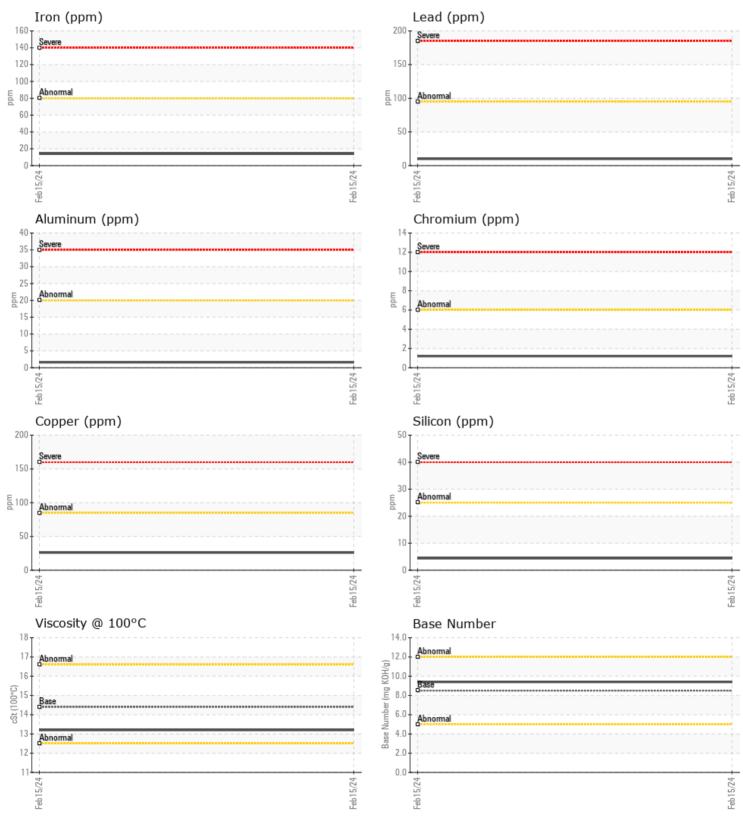
23 Feb 2024



OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: WILLOW YANARELLA - VP794951