OIL ANALYSIS REPORT

20132065041 - STARBOARD DIESEL ENGINE

Sample No: VPA049535

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

Sample Number		VPA049535	 	
Sample Date		23 Jan 2024	 	
Machine Hours		175	 	
Oil Hours		175	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	13.3	 	
Base Number (BN)	mg KOH/g	7.7	 	
Oxidation (PA)	%	38	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.2	 	
Nitration (PA)	%	46	 	
Sulfation (PA)	%	43	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	24	 	
Sodium	ppm	4	 	
Potassium	ppm	1 9	 	
WEAR METALS				
Iron	ppm	1 7	 	
Copper	ppm	33	 	
Lead	ppm	1	 	
Tin	ppm	3	 	
Aluminum	ppm	8	 	
Chromium	ppm	 <1	 	
Molybdenum	ppm	∎4	 	
Nickel	ppm	 <1	 	
Titanium	ppm	■ <1	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	ppm	1049	 	
Magnesium	ppm	937	 	
Zinc	ppm	1200	 	
Phosphorus	ppm	1028	 	
Barium	ppm	0	 	
Boron	ppm	7		



SIEBERT YACHT MANAGEMENT

2875 JUPITER PARK DR, SUITE 1700 JUPITER, FL US 33458 Contact: JAY SIEBERT jay@siebertyachtmanagement.com T: 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 acceptable for the time in service.

 Depot:
 VP1190184

 Unique No:
 10847568

 Signed:
 Don Baldridge

 Report Date:
 29 Jan 2024

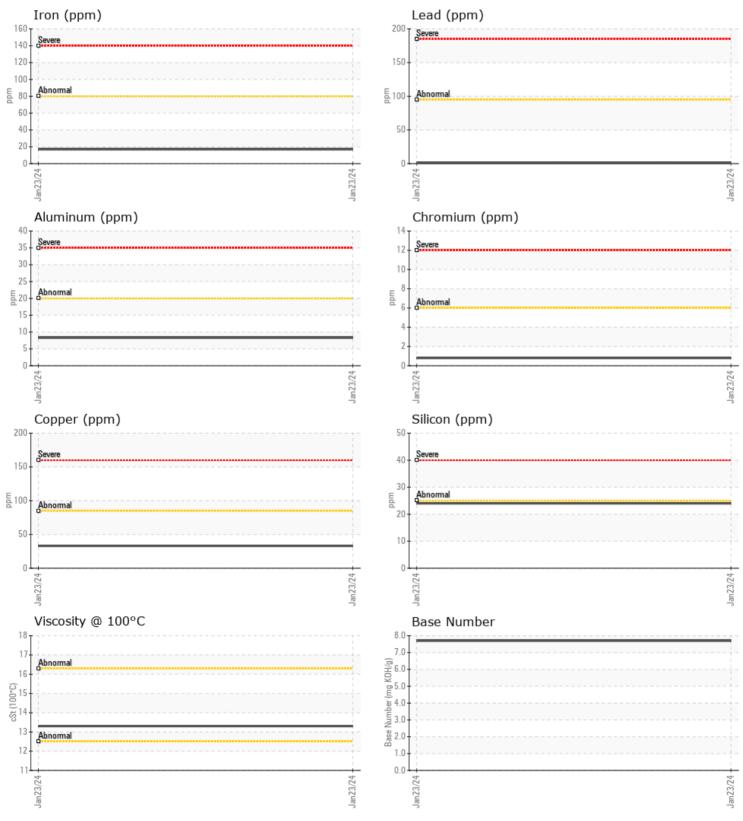
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Contact/Location: JAY SIEBERT - VP1190184

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Contact/Location: JAY SIEBERT - VP1190184