OIL ANALYSIS REPORT

VOLVO PENTA A 1214949 - STARBOARD DIESEL ENGINE

Sample No: VPA047531

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Sample Number		VPA047531	 	
Sample Date		04 Apr 2024	 	
Machine Hours		0	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	12.6	 	
Base Number (BN)	mg KOH/g	9.8	 	
Oxidation (PA)	%	61	 	
CONTAMINATION				
	0/	NEG		
Water Soot %	%	■ 0.1	 	
Nitration (PA)	%	50	 	
Sulfation (PA)	%	54	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	■4	 	
Sodium	ppm	1	 	
Potassium	ppm	0	 	
WEAR METALS	<u> </u>			
		-7	 	
	ppm	□ 7 □ 6	 	
Copper Lead	ppm	2	 	
Tin	ppm	0	 	
Aluminum	ppm	 <1	 	
Chromium	ppm		 	
Molybdenum	ppm ppm	60	 	
Nickel	ppm	■ <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	0	 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	nom	1022	 	
	ppm ppm	931	 	
Magnocium	ppm	93	 	
Magnesium Zinc			 	
Zinc			 	
	ppm ppm	1016	 	



Bay Marine Boatworks Inc. 310 West Cutting Blvd. RICHMOND, CA US 94804 Contact: David Vandervoort max@baymarineboatworks.com T:

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:
 VP601779

 Unique No:
 10981639

 Signed:
 Jonathan Hester

 Report Date:
 19 Apr 2024

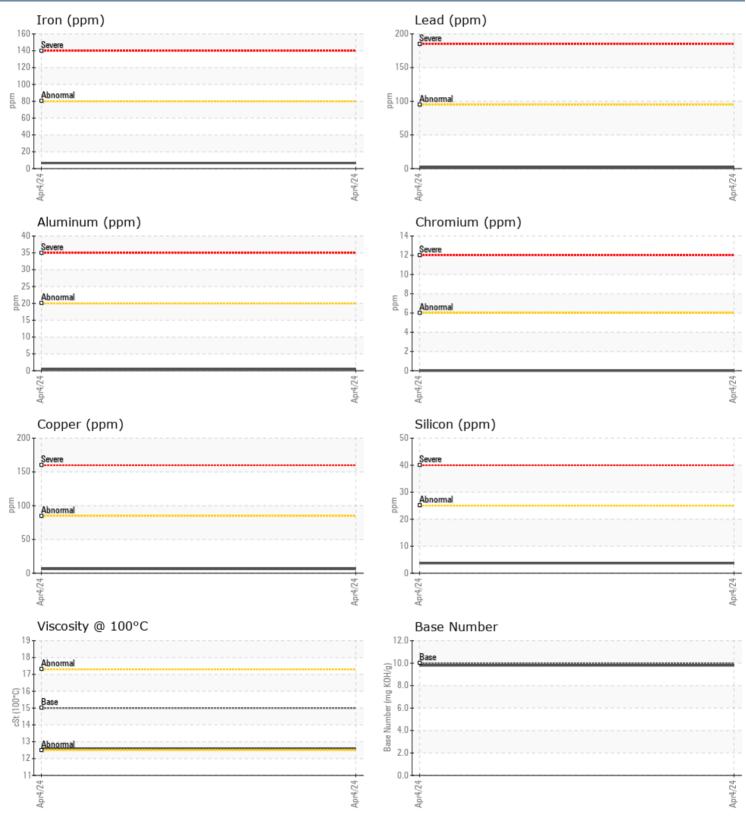
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Contact/Location: David Vandervoort - VP601779

OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: David Vandervoort - VP601779