OIL ANALYSIS REPORT

FRAISER YACHT SALES 502972 VOLVO PENTA 2013650278 - STARBOARD DIESEL ENGINE

Sample No: VPA062851

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

Sample Number		VPA062851	 	
Sample Date		09 Apr 2024	 	
Machine Hours		559	 	
Oil Hours		85	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CONDITION				
/isc @ 100°C	cSt	12.8	 	
Base Number (BN)	mg KOH/g	10.2	 	
Oxidation (PA)	%	54	 	
CONTAMINATION				
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	42	 	
Sulfation (PA)	%	50	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	4	 	
Sodium	ppm	0	 	
Potassium	ppm	0	 	
WEAR METALS				
Iron	ppm	3	 	
Copper	ppm	0	 	
Lead	ppm	0	 	
Tin	ppm	□ <1	 	
Aluminum	ppm	<1	 	
Chromium	ppm	0	 	
Volybdenum	ppm	59	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	□ <1	 	
/anadium	ppm	0	 	
ADDITIVES				
Calcium	ppm	1034	 	
Magnesium	ppm	936	 	
Zinc	ppm	1172	 	
Phosphorus	ppm	1003	 	
Barium	ppm	0	 	
Boron	ppm	8	 	
BOION	ppin	0		

or Marine LLC - Coastal Marine - 152124 0 11th Ave. NW TTLE, WA 98107 tact: 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 normal. There is no indication of 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 time in service.

Contact/Location: WILLOW YANARELLA - VP794951 Report Id: VP794951 [WUSCAR] 06144855 (Generated: 04/16/2024 10:00:59) Rev: 1

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VP794951

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Report Date:

Don Baldridge

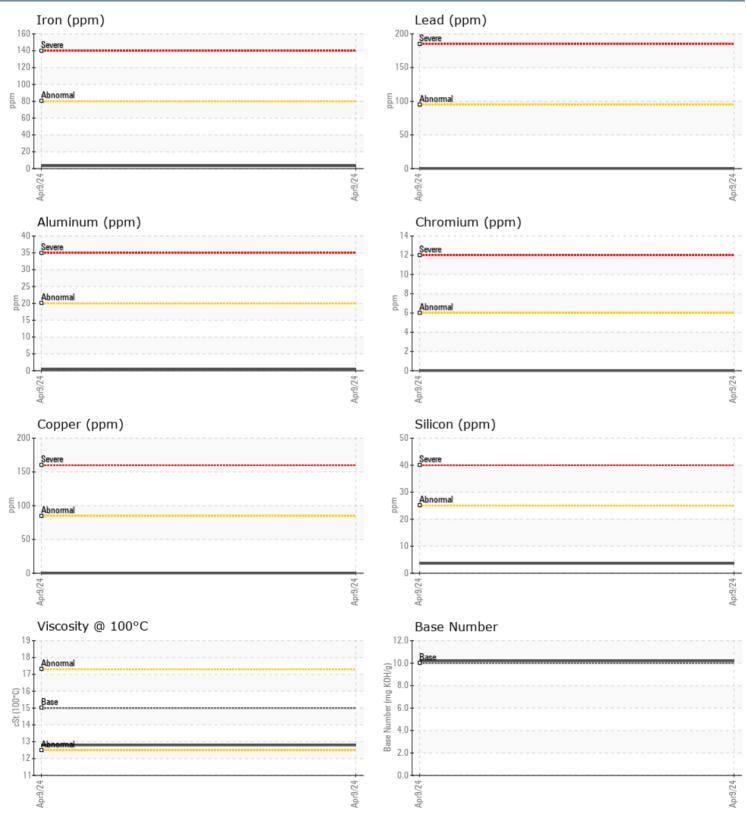
13 Apr 2024



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP794951 [WUSCAR] 06144855 (Generated: 04/16/2024 10:01:01) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951