OIL ANALYSIS REPORT

PACIFIC NORTHWEST YACHT SAM VOLVO PENTA 2300072768 - STARBOARD DIESEL ENGINE

Sample No: VPA036842

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number		VPA036842	 	
Sample Date		20 Jul 2023	 	
Machine Hours		882	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.9	 	
Base Number (BN)	mg KOH/g	7.8	 	
Oxidation (PA)	%	78	 	
CONTAMINATION				
Soot %	%	1.2	 	
Nitration (PA)	%	107	 	
Sulfation (PA)	%	61	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	8	 	
Sodium	ppm	3	 	
Potassium	ppm	4	 	

WEAR METALS

Iron	ppm	84	 	
Copper	ppm	9	 	
Lead	ppm	3	 	
Tin	ppm	2	 	
Aluminum	ppm	4	 	
Chromium	ppm	2	 	
Molybdenum	ppm	32	 	
Nickel	ppm	2	 	
Titanium	ppm	□<1	 	
Silver	ppm	0	 	
Manganese	ppm	1	 	
Vanadium	ppm	<1	 	

ADDITIVES

Calcium	ppm	1531	 	
Magnesium	ppm	809	 	
Zinc	ppm	942	 	
Phosphorus	ppm	764	 	
Barium	ppm	0	 	
Boron	ppm	91	 	

Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703 F: (206)784-8823

Diagnosis

No corrective action is recommended at this time. 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:
 VP794951

 Unique No:
 10577336

 Signed:
 Doug Bogart

 Report Date:
 31 Jul 2023

Report Id: VP794951 [WUSCAR] 05910684 (Generated: 07/31/2023 22:41:22) Rev: 1

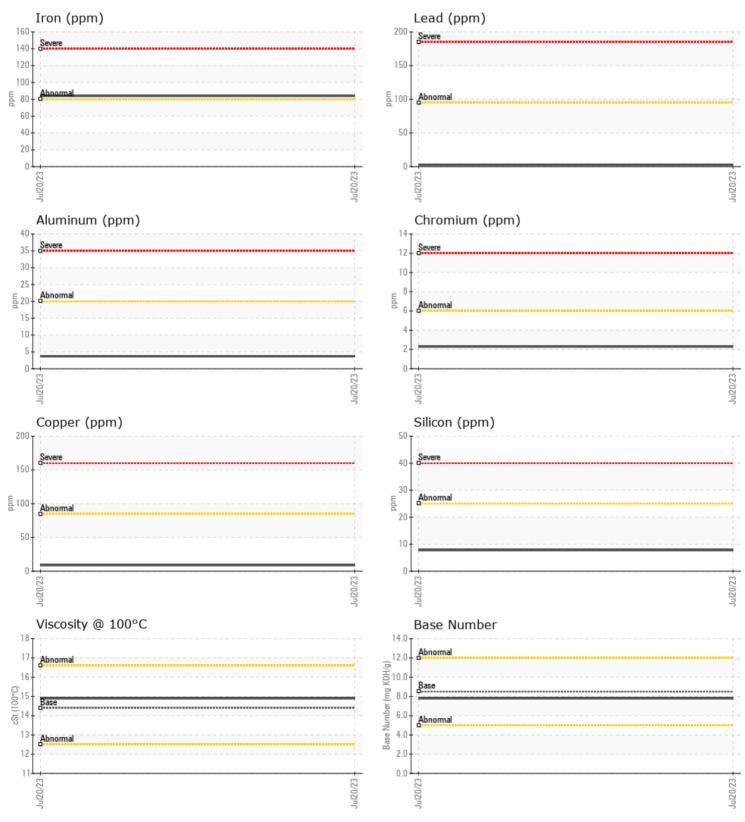
Contact/Location: WILLOW YANARELLA - VP794951



OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: WILLOW YANARELLA - VP794951