OIL ANALYSIS REPORT

SUNDANCE YACHTS JG VOLVO PENTA 2204146582 - STARBOARD DIESEL ENGINE

Sample No: VPA060497

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number		VPA060497	 	
Sample Date		29 Feb 2024	 	
Machine Hours		1300	 	
Oil Hours		50	 	
Oil Changed		N/A	 	
Sample Status		ABNORMAL	 	
OIL CONDITION				
Visc @ 100°C	cSt	14.7	 	
Base Number (BN)	mg KOH/g	9.0	 	
Oxidation (PA)	%	72	 	
CONTAMINATION				
Water	%	NEG	 	
Soot %	%	∎1	 	
Nitration (PA)	%	81	 	
Sulfation (PA)	%	61	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	A 38	 	
Sodium	ppm	4	 	
Potassium	ppm	3	 	
WEAR METALS				
Iron	ppm	4 94	 	
Copper	ppm	5	 	
Lead	ppm	6	 	
Tin	ppm	1	 	
Aluminum	ppm	5	 	
Chromium	ppm	3	 	
Molybdenum	ppm	54	 	
Nickel	ppm	<u>4</u>	 	
Titanium	ppm	□<1	 	
Silver	ppm	0	 	
Manganese	ppm		 	
Vanadium	ppm	<1	 	
ADDITIVES				
Calcium	nnm	1320		

Calcium	ppm	1329	 	
Magnesium	ppm	636	 	
Zinc	ppm	1028	 	
Phosphorus	ppm	882	 	
Barium	ppm	0	 	
Boron	ppm	233	 	

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. We recommend an early resample to monitor this condition.Cylinder, crank, or cam shaft wear is indicated. Exhaust valve wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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:
 VP794951

 Unique No:
 10910350

 Signed:
 Sean Felton

 Report Date:
 05 Mar 2024

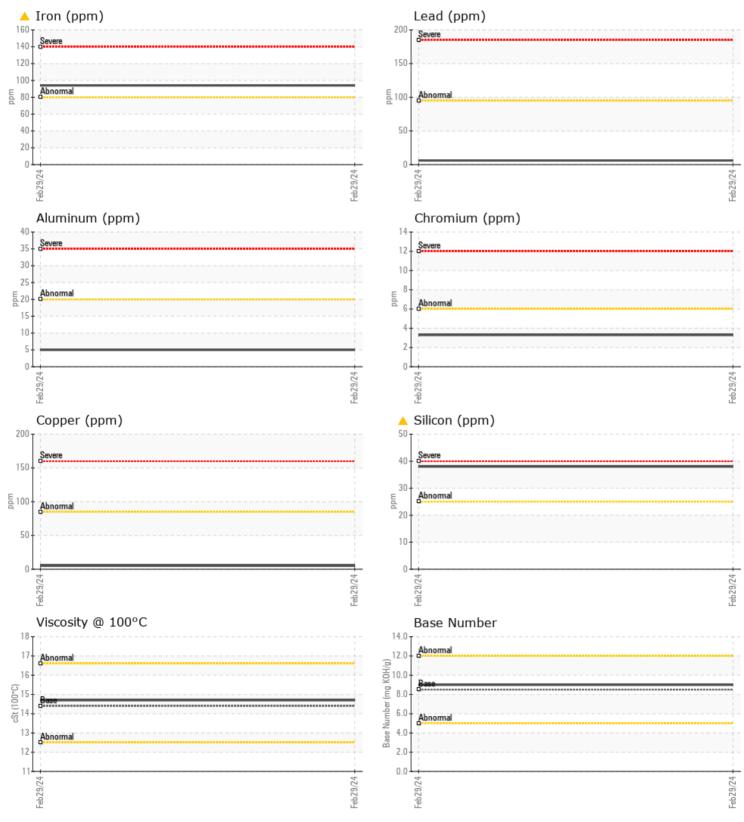
Contact/Location: WILLOW YANARELLA - VP794951



OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: WILLOW YANARELLA - VP794951