## **OIL ANALYSIS REPORT**

### VOLVO PENTA

### DAVID BOVEE SAM KOHLER 2091237 - GENSET

Sample No: VPA055092

Oil Type: VOLVO PENTA SAE 15W40

Sample Number		VPA055092	VPA044857	 
Sample Date		05 Feb 2024	21 Dec 2022	 
Machine Hours		1346	1248	 
Oil Hours		0	0	 
Oil Changed		Changed	N/A	 
Sample Status		NORMAL	NORMAL	 
OIL CONDITION				
Visc @ 100°C	cSt	<b>13.1</b>	13.3	 
Base Number (BN)	mg KOH/g	9.3	10.8	 
Oxidation (PA)	%	64	68	 
CONTAMINATION				
Water	%	NEG	NEG	 
Soot %	%	0.1	0.1	 
Nitration (PA)	%	53	59	 
Sulfation (PA)	%	53	58	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	< 1.0	 
Silicon	ppm	<b>10</b>	4	 
Sodium	ppm	2	0	 
Potassium	ppm	2	2	 
WEAR METALS				
Iron	ppm	6	3	 
Copper	ppm	 <b></b> <1	<1	 
Lead	ppm	 <b></b> <1	<1	 
Tin	ppm	■ <1	□ <1	 
Aluminum	ppm	2	<1	 
Chromium	ppm	<1	0	 
Molybdenum	ppm	89	57	 
Nickel	ppm	<b>□</b> <1	0	 
Titanium	ppm	<1	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b> </b> <1	0	 
/anadium	ppm	0	0	 
ADDITIVES				
Calcium	ppm	1551	1182	 
Magnesium	ppm	1505	883	 
Zinc	ppm	1915	1239	 
Phosphorus	ppm	1534	1041	 
Barium	ppm	0	0	 
Boron	ppm	<b>11</b>	9	 

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

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:
 VP794951

 Unique No:
 10872632

 Signed:
 Don Baldridge

 Report Date:
 12 Feb 2024

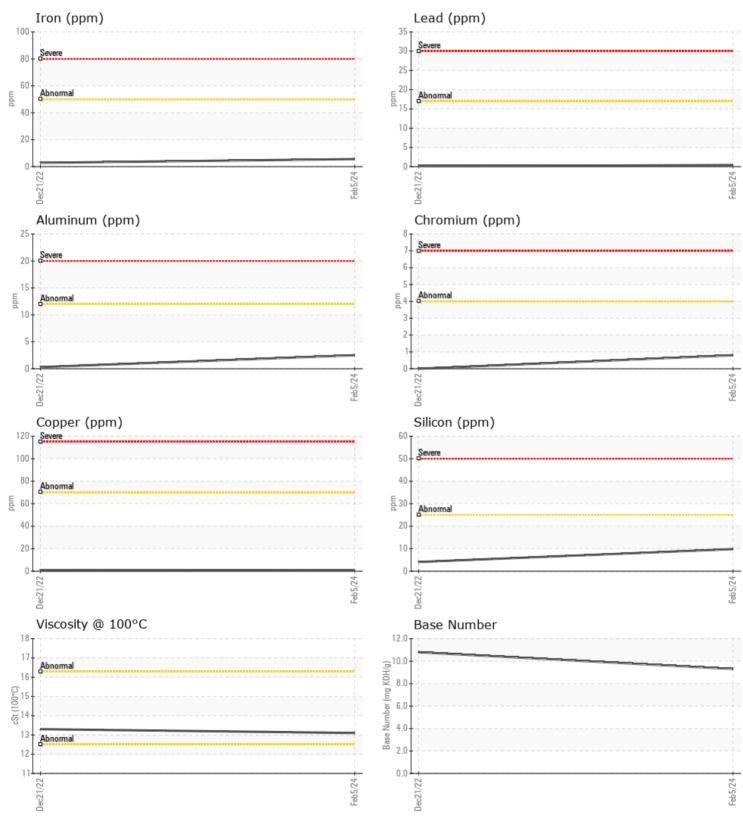
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Contact/Location: WILLOW YANARELLA - VP794951

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#### GRAPHS



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