

OIL ANALYSIS REPORT



FRED LOPATIN LOPATIN VOLVO PENTA 7008453402 - PORT DIESEL ENGINE

Sample No: VPA056414
Oil Type: VALVOLINE PREMIUM BLUE 2000 15W40

SAMPLE INFORMATION

Sample Number	VPA056414	VPA042924	---	---
Sample Date	04 Mar 2024	21 Mar 2023	---	---
Machine Hours	618	505	---	---
Oil Hours	110	287	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

Jefferson Beach Yacht Sales Inc
 24400 Jefferson Ave.
 SAINT CLAIR SHORES, MI
 US 48080
 Contact: DAVID LESH
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 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	14.8	14.8	---	---
Base Number (BN)	mg KOH/g	9.2	9.2	---	---
Oxidation (PA)	%	68	64	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	1.4	1.9	---	---
Nitration (PA)	%	78	77	---	---
Sulfation (PA)	%	62	65	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	23	26	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	2	1	---	---

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other 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.

WEAR METALS

Iron	ppm	36	42	---	---
Copper	ppm	99	108	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	3	3	---	---
Chromium	ppm	3	4	---	---
Molybdenum	ppm	53	49	---	---
Nickel	ppm	3	3	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	2	2	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	<1	---	---

Diagnosis

ADDITIVES

Calcium	ppm	1422	1418	---	---
Magnesium	ppm	828	732	---	---
Zinc	ppm	1151	1254	---	---
Phosphorus	ppm	867	995	---	---
Barium	ppm	0	0	---	---
Boron	ppm	15	0	---	---

Depot: VP297371
Unique No: 10954144
Signed: Don Baldrige
Report Date: 03 Apr 2024

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VOLVO PENTA

GRAPHS

