

OIL ANALYSIS REPORT



JAMES MOSSMAN ALAN VOLVO PENTA 7011382588 - PORT DIESEL ENGINE

Sample No: VPA059425
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA059425	VPA035084	VPA035203	---
Sample Date	18 Oct 2023	18 Nov 2022	03 Nov 2021	---
Machine Hours	403	381	356	---
Oil Hours	22	25	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Precision Marine Center Llc
 290 Drake Ave
 NEW ROCHELLE, NY
 US 10805
 Contact: Marc Castellano
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	13.8	12.9	13.2	---
Base Number (BN)	mg KOH/g	9.6	11.5	---	---
Oxidation (PA)	%	62	59	54	---

CONTAMINATION

Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	48	45	45	---
Sulfation (PA)	%	53	55	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	6	5	---
Sodium	ppm	2	0	<1	---
Potassium	ppm	3	1	<1	---

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 suitable for further service.

WEAR METALS

Iron	ppm	1	3	3	---
Copper	ppm	5	6	9	---
Lead	ppm	1	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	1	<1	<1	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	32	58	51	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1617	1105	1341	---
Magnesium	ppm	445	870	827	---
Zinc	ppm	1284	1201	1237	---
Phosphorus	ppm	1051	1016	1092	---
Barium	ppm	0	0	0	---
Boron	ppm	84	2	6	---

Depot: VP850387
Unique No: 10708776
Signed: Don Baldrige
Report Date: 25 Oct 2023

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**VOLVO
PENTA**

GRAPHS

