

OIL ANALYSIS REPORT

VOLVO PENTA

TOM MADDEN 505265 VOLVO PENTA 1101059487 - PORT DIESEL ENGINE

Sample No: VPA048591

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA048591	VPA048059	VPA028524	---
Sample Date	08 Sep 2023	13 Jan 2023	25 May 2021	---
Machine Hours	1015	991	900	---
Oil Hours	0	925	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Jefferson Beach Yacht Sales Inc

24400 Jefferson Ave.
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US 48080

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F:

OIL CONDITION

Visc @ 100°C	cSt	13.7	13.1	13.5	---
Base Number (BN)	mg KOH/g	9.4	9.6	---	---
Oxidation (PA)	%	45	56	61	---

CONTAMINATION

Soot %	%	0.4	0.7	0.3	---
Nitration (PA)	%	54	55	59	---
Sulfation (PA)	%	46	55	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	2	4	1	---
Sodium	ppm	0	<1	2	---
Potassium	ppm	<1	<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 acceptable for the time in service.

WEAR METALS

Iron	ppm	4	7	5	---
Copper	ppm	<1	1	1	---
Lead	ppm	0	<1	0	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	<1	<1	0	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	61	61	49	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	<1	2	14	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	<1	0	<1	---

ADDITIVES

Calcium	ppm	1142	1098	1129	---
Magnesium	ppm	1029	945	808	---
Zinc	ppm	1314	1244	1136	---
Phosphorus	ppm	1052	1024	986	---
Barium	ppm	0	0	0	---
Boron	ppm	4	3	17	---

Depot: VP297371

Unique No: 10645888

Signed: Angela Borella

Report Date: 15 Sep 2023

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PENTA**

GRAPHS

