

OIL ANALYSIS REPORT

VOLVO PENTA

WILLIAM HOVERLOND 43087 VOLVO PENTA A1 107869 - PORT DIESEL ENGINE

Sample No: VPA048566

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA048566	VPA047457	VPA031277	---
Sample Date	29 Jun 2023	03 Aug 2022	02 May 2021	---
Machine Hours	476	370	184	---
Oil Hours	0	0	184	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 13.3	█ 13.2	---
Base Number (BN)	mg KOH/g	█ 9.9	█ 10.4	---	---
Oxidation (PA)	%	61	63	72	---

CONTAMINATION

Soot %	%	█ 0.3	█ 0.6	█ 0.4	---
Nitration (PA)	%	48	60	58	---
Sulfation (PA)	%	55	61	68	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 3	█ 8	█ 21	---
Sodium	ppm	█ 1	█ 2	█ 4	---
Potassium	ppm	█ <1	█ 0	█ 3	---

WEAR METALS

Iron	ppm	█ 9	█ 17	█ 18	---
Copper	ppm	█ 4	█ 8	█ 18	---
Lead	ppm	█ <1	█ 3	█ 7	---
Tin	ppm	█ <1	█ 1	█ 3	---
Aluminum	ppm	█ 2	█ 5	█ 2	---
Chromium	ppm	█ <1	█ <1	█ 1	---
Molybdenum	ppm	█ 56	█ 65	█ 104	---
Nickel	ppm	█ <1	█ <1	█ 1	---
Titanium	ppm	█ <1	█ 0	█ <1	---
Silver	ppm	█ 0	█ <1	█ <1	---
Manganese	ppm	█ <1	█ <1	█ 1	---
Vanadium	ppm	0	0	<1	---

ADDITIVES

Calcium	ppm	971	█ 1064	█ 1565	---
Magnesium	ppm	█ 905	█ 861	█ 585	---
Zinc	ppm	█ 1135	█ 1176	█ 824	---
Phosphorus	ppm	█ 928	█ 948	█ 748	---
Barium	ppm	█ 0	█ <1	█ <1	---
Boron	ppm	█ 0	█ 35	█ 524	---

COASTAL CAROLINA YACHT SALES

145 LOCKWOOD BLVD

CHARLESTON, SC

US 29403

Contact: STEVE VASAS

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T:

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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.

Depot: VP568144

Unique No: 10549119

Signed: Don Baldrige

Report Date: 11 Jul 2023

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GRAPHS

