

OIL ANALYSIS REPORT

VOLVO PENTA

SUNBERNER VOLVO PENTA 7011457621 - PORT DIESEL ENGINE

Sample No: VPA055584
Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA055584	VPA048707	VPA055577	---
Sample Date	10 Jul 2023	05 Jul 2023	28 Jun 2023	---
Machine Hours	414	0	392	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	NORMAL	NORMAL	SEVERE	---

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OIL CONDITION

Visc @ 100°C	cSt	13.5	13.41	▲ 12.35	---
Base Number (BN)	mg KOH/g	9.7	9.2	8.1	---
Oxidation (PA)	%	47	51	59	---

CONTAMINATION

Soot %	%	0.1	0.1	0.2	---
Nitration (PA)	%	39	36	48	---
Sulfation (PA)	%	53	53	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	3.4	3.1	8.8	---
Silicon	ppm	4	6	12	---
Sodium	ppm	3	3	16	---
Potassium	ppm	2	1	3	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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	3	5	8	---
Copper	ppm	11	9	29	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	<1	<1	0	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	43	40	47	---
Nickel	ppm	<1	0	1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	877	811	1279	---
Magnesium	ppm	588	577	571	---
Zinc	ppm	897	828	1064	---
Phosphorus	ppm	1090	1039	909	---
Barium	ppm	0	2	0	---
Boron	ppm	71	85	19	---

Depot: VP867279
Unique No: 10552501
Signed: Doug Bogart
Report Date: 13 Jul 2023

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GRAPHS

