

OIL ANALYSIS REPORT

**VOLVO
PENTA**

15244 ONAN F070073209 - GENSET

Sample No: VPA057155

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA057155	VPA047931	VPA037654	---
Sample Date	27 Mar 2024	09 Nov 2022	21 Apr 2021	---
Machine Hours	565	0	473	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	N/A	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

W J Clark Inc

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Contact: WALTER CLARK
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OIL CONDITION

Visc @ 100°C	cSt	14.3	13.6	14.2	---
Base Number (BN)	mg KOH/g	9.6	9.8	---	---
Oxidation (PA)	%	62	71	73	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0.1	0	---
Nitration (PA)	%	47	56	46	---
Sulfation (PA)	%	53	60	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	4	4	---
Sodium	ppm	2	1	3	---
Potassium	ppm	2	9	10	---

Diagnosis

No corrective action is recommended at this time. 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	0	3	2	---
Copper	ppm	0	1	<1	---
Lead	ppm	0	<1	1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	2	<1	<1	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	36	<1	<1	---
Nickel	ppm	<1	0	1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	0	0	<1	---

ADDITIVES

Calcium	ppm	1471	2183	2129	---
Magnesium	ppm	469	22	20	---
Zinc	ppm	1152	1176	1196	---
Phosphorus	ppm	955	980	1008	---
Barium	ppm	0	0	0	---
Boron	ppm	68	193	204	---

Depot: VP151520
Unique No: 10952478
Signed: Doug Bogart
Report Date: 31 Mar 2024

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GRAPHS

