

OIL ANALYSIS REPORT

VOLVO PENTA

MICHAEL BECKER OWNER A1073499 - PORT DIESEL ENGINE

Sample No: VPA062806

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA062806	VPA051509	VPA047253	---
Sample Date	25 Jun 2024	08 Sep 2023	01 Apr 2022	---
Machine Hours	520	450	333	---
Oil Hours	520	40	333	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	13.2	13.36	13.4	---
Base Number (BN)	mg KOH/g	10.1	10.3	11.3	---
Oxidation (PA)	%	55	53	60	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.3	0.5	---
Nitration (PA)	%	49	43	53	---
Sulfation (PA)	%	52	52	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	5	7	---
Sodium	ppm	2	1	2	---
Potassium	ppm	1	1	<1	---

WEAR METALS

Iron	ppm	14	10	14	---
Copper	ppm	6	6	6	---
Lead	ppm	2	1	2	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	2	0	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	62	60	63	---
Nickel	ppm	1	<1	2	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	1112	1383	1237	---
Magnesium	ppm	1004	1105	1077	---
Zinc	ppm	1333	1435	1473	---
Phosphorus	ppm	1174	1151	1167	---
Barium	ppm	0	0	0	---
Boron	ppm	0	8	21	---

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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: VPMICRED

Unique No: 11114677

Signed: Jonathan Hester

Report Date: 10 Jul 2024

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GRAPHS

