

OIL ANALYSIS REPORT

VOLVO PENTA

MICHAEL BECKER OWNER A1073500 - STARBOARD DIESEL ENGINE

Sample No: VPA062808

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA062808	VPA051511	VPA048891	---
Sample Date	25 Jun 2024	08 Sep 2023	01 Apr 2022	---
Machine Hours	520	447	333	---
Oil Hours	116	40	333	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	13.1	13.47	13.3	---
Base Number (BN)	mg KOH/g	10.0	10.2	11.0	---
Oxidation (PA)	%	56	54	57	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.3	0.5	---
Nitration (PA)	%	50	43	58	---
Sulfation (PA)	%	53	52	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	4	7	---
Sodium	ppm	2	1	3	---
Potassium	ppm	1	<1	<1	---

WEAR METALS

Iron	ppm	16	10	14	---
Copper	ppm	6	3	7	---
Lead	ppm	3	2	3	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	2	0	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	63	63	64	---
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	1114	1333	1275	---
Magnesium	ppm	1010	1158	1106	---
Zinc	ppm	1335	1443	1536	---
Phosphorus	ppm	1188	1157	1197	---
Barium	ppm	0	0	0	---
Boron	ppm	0	1	14	---

MICHAEL BECKER

21827 NE 104TH PLACE

REDMOND, WA

US 98053

Contact: MICHAEL BECKER

michaelabecker1@gmail.com

T:

F:

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: 1114678

Signed: Jonathan Hester

Report Date: 10 Jul 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

