

OIL ANALYSIS REPORT



MARK GUILMAIN TAP551928 VOLVO PENTA 10132025649 - PORT DIESEL ENGINE

Sample No: VPA045613
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA045613	VPA040585	VPA040703	---
Sample Date	09 Apr 2024	05 Jun 2023	04 Apr 2022	---
Machine Hours	520	360	163	---
Oil Hours	520	360	163	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

FDDA TAMPA

TAMPA, FL
 US
 Contact: KYLE SUTLEY
 k.sutley@ssss.com
 T: (813)918-8518
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.1	13.17	12.9	---
Base Number (BN)	mg KOH/g	9.7	9.2	10.9	---
Oxidation (PA)	%	59	68	92	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.3	0.3	---
Nitration (PA)	%	53	53	63	---
Sulfation (PA)	%	53	57	68	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	10	23	---
Sodium	ppm	1	1	3	---
Potassium	ppm	2	4	25	---

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	5	7	16	---
Copper	ppm	2	3	10	---
Lead	ppm	<1	0	2	---
Tin	ppm	1	<1	2	---
Aluminum	ppm	2	<1	11	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	61	57	40	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	2	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	1102	1213	1726	---
Magnesium	ppm	995	951	521	---
Zinc	ppm	1224	1244	1090	---
Phosphorus	ppm	1041	1020	968	---
Barium	ppm	1	0	0	---
Boron	ppm	4	6	47	---

Depot: VP208641
Unique No: 10979829
Signed: Don Baldrige
Report Date: 18 Apr 2024

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**VOLVO
PENTA**

GRAPHS

