

OIL ANALYSIS REPORT



VOLVO PENTA A3836 14 - PORT DIESEL ENGINE

Sample No: VPA038866
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA038866	VPA024060	VPA013417	---
Sample Date	08 Jun 2021	13 Nov 2019	11 Dec 2017	---
Machine Hours	0	214	130	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Marine Maintenance Of
 7803 McElvey Rd
 PANAMA CITY BEACH, FL
 US 32408
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OIL CONDITION

Visc @ 100°C	cSt	14.6	13.8	13.82	---
Oxidation (PA)	%	68	59	40	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0	---
Nitration (PA)	%	47	56	33	---
Sulfation (PA)	%	59	52	36	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	6	8	---
Sodium	ppm	1	2	3	---
Potassium	ppm	6	0	<1	---

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 condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	5	12	10	---
Copper	ppm	<1	3	4	---
Lead	ppm	<1	1	1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	1	5	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	10	56	51	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1990	962	1052	---
Magnesium	ppm	172	847	731	---
Zinc	ppm	1236	1025	920	---
Phosphorus	ppm	999	963	896	---
Barium	ppm	0	0	0	---
Boron	ppm	200	8	24	---

Depot: VP313024
Unique No: 9538468
Signed: Don Baldrige
Report Date: 10 Jun 2021

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**VOLVO
PENTA**

GRAPHS

