

OIL ANALYSIS REPORT



DENNIS MADSEN SAM VOLVO PENTA A222849 - PORT DIESEL ENGINE

Sample No: VPA060037
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA060037	VPA043190	VPA047478	---
Sample Date	27 Feb 2024	07 Feb 2023	14 Mar 2022	---
Machine Hours	1254	1149	1015	---
Oil Hours	105	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Endor Marine LLC - Coastal Marine - 152124
 4300 11th Ave. NW
 SEATTLE, WA
 US 98107
 Contact: WILLOW YANARELLA
 service@coastalmarineengine.com
 T: (206)784-3703
 F: (206)784-8823

OIL CONDITION

Visc @ 100°C	cSt	13.1	13.5	13.6	---
Base Number (BN)	mg KOH/g	10.2	10.1	10.8	---
Oxidation (PA)	%	71	57	62	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	51	50	53	---
Sulfation (PA)	%	56	52	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	4	5	---
Sodium	ppm	2	2	2	---
Potassium	ppm	1	<1	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 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	14	15	14	---
Copper	ppm	4	4	4	---
Lead	ppm	<1	1	1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	10	13	17	---
Chromium	ppm	1	1	2	---
Molybdenum	ppm	52	60	61	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	<1	---

ADDITIVES

Calcium	ppm	1290	1084	1056	---
Magnesium	ppm	709	992	981	---
Zinc	ppm	1042	1364	1306	---
Phosphorus	ppm	924	1074	1074	---
Barium	ppm	0	0	0	---
Boron	ppm	34	1	5	---

Depot: VP794951
Unique No: 10910360
Signed: Sean Felton
Report Date: 05 Mar 2024

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VOLVO PENTA

GRAPHS

