

# OIL ANALYSIS REPORT



## VOLVO PENTA 2006022251 - CENTER DIESEL ENGINE

**Sample No:** VPA058172

**Oil Type:** DIESEL ENGINE OIL SAE 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA058172</b>	VPA009637	VPA009727	---
Sample Date	<b>08 Mar 2024</b>	09 Aug 2017	07 Dec 2016	---
Machine Hours	<b>2111</b>	517	511	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	Not Changd	Not Changd	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

### SUNCOAST DIESEL MARINE

6341 PORTER ROAD, SUITE 6  
SARASOTA, FL  
US 34240  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.51</b>	14.06	14.65	---
Base Number (BN)	mg KOH/g	<b>9.4</b>	---	---	---
Oxidation (PA)	%	<b>66</b>	40	60	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.2</b>	0	0.1	---
Nitration (PA)	%	<b>66</b>	42	67	---
Sulfation (PA)	%	<b>56</b>	44	55	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>4</b>	4	8	---
Sodium	ppm	<b>1</b>	4	10	---
Potassium	ppm	<b>0</b>	<1	4	---

### Diagnosis

No corrective action is recommended at this time. 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	<b>13</b>	42	84	---
Copper	ppm	<b>5</b>	1	<1	---
Lead	ppm	<b>7</b>	<1	1	---
Tin	ppm	<b>1</b>	<1	1	---
Aluminum	ppm	<b>3</b>	3	5	---
Chromium	ppm	<b>&lt;1</b>	1	3	---
Molybdenum	ppm	<b>58</b>	50	37	---
Nickel	ppm	<b>&lt;1</b>	<1	2	---
Titanium	ppm	<b>0</b>	4	25	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	1	---
Vanadium	ppm	<b>0</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>1022</b>	942	1369	---
Magnesium	ppm	<b>913</b>	808	803	---
Zinc	ppm	<b>1227</b>	957	1177	---
Phosphorus	ppm	<b>1031</b>	869	909	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>11</b>	11	53	---

**Depot:** VP705283  
**Unique No:** 10923580  
**Signed:** Doug Bogart  
**Report Date:** 11 Mar 2024

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## GRAPHS

