

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## NIGEL MANSELL GT6001 VOLVO PENTA 2013841444 - PORT DIESEL ENGINE

**Sample No:** VPA047321

**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

Sample Number	<b>VPA047321</b>	VPA041391	VPA043900	---
Sample Date	<b>21 Jul 2023</b>	28 Feb 2023	24 Jun 2022	---
Machine Hours	<b>400</b>	248	177	---
Oil Hours	<b>150</b>	126	80	---
Oil Changed	<b>Changed</b>	Not Changd	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

### GRAND BANKS

450 SW SALEM RD

STUART, FL

US 34994

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.0	13.3	---
Base Number (BN)	mg KOH/g	<b>9.6</b>	10.2	10.0	---
Oxidation (PA)	%	<b>58</b>	55	50	---

### CONTAMINATION

Soot %	%	<b>0.4</b>	0.2	0.1	---
Nitration (PA)	%	<b>58</b>	48	42	---
Sulfation (PA)	%	<b>54</b>	52	48	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>9</b>	6	8	---
Sodium	ppm	<b>0</b>	1	<1	---
Potassium	ppm	<b>3</b>	1	5	---

### WEAR METALS

Iron	ppm	<b>10</b>	6	7	---
Copper	ppm	<b>3</b>	2	3	---
Lead	ppm	<b>&lt;1</b>	0	<1	---
Tin	ppm	<b>&lt;1</b>	0	1	---
Aluminum	ppm	<b>2</b>	1	2	---
Chromium	ppm	<b>&lt;1</b>	0	<1	---
Molybdenum	ppm	<b>62</b>	60	57	---
Nickel	ppm	<b>&lt;1</b>	0	<1	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	<1	---

### ADDITIVES

Calcium	ppm	<b>1085</b>	1106	1064	---
Magnesium	ppm	<b>966</b>	959	991	---
Zinc	ppm	<b>1236</b>	1262	1343	---
Phosphorus	ppm	<b>1048</b>	1047	1052	---
Barium	ppm	<b>1</b>	0	0	---
Boron	ppm	<b>3</b>	1	4	---

### 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.

**Depot:** VP531377

**Unique No:** 10578786

**Signed:** Sean Felton

**Report Date:** 02 Aug 2023

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## GRAPHS

