

# OIL ANALYSIS REPORT

# VOLVO PENTA

## MCCLOSKEY 77040 - VARIABLE SPEED - DIESEL ENGINE

**Sample No:** VPA049713

**Oil Type:** DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number	<b>VPA049713</b>	VPA259103	VPA259097	---
Sample Date	<b>26 Oct 2023</b>	26 Jan 2022	17 May 2021	---
Machine Hours	<b>1207</b>	365	297	---
Oil Hours	<b>200</b>	60	297	---
Oil Changed	<b>Changed</b>	Not Changd	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

### MCCOURT & SONS EQUIPMENT INC

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LA GRANGE, TX

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.3	11.8	---
Base Number (BN)	mg KOH/g	<b>9.5</b>	8.7	---	---
Oxidation (PA)	%	<b>54</b>	41	70	---

### CONTAMINATION

Soot %	%	<b>0.2</b>	0	0.1	---
Nitration (PA)	%	<b>48</b>	52	58	---
Sulfation (PA)	%	<b>52</b>	49	63	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.3	---
Silicon	ppm	<b>17</b>	15	35	---
Sodium	ppm	<b>4</b>	1	3	---
Potassium	ppm	<b>2</b>	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 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>27</b>	6	12	---
Copper	ppm	<b>90</b>	2	11	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>3</b>	1	3	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>59</b>	13	96	---
Nickel	ppm	<b>&lt;1</b>	0	<1	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>2</b>	<1	1	---
Manganese	ppm	<b>&lt;1</b>	<1	1	---
Vanadium	ppm	<b>0</b>	0	<1	---

### ADDITIVES

Calcium	ppm	<b>1161</b>	2102	1746	---
Magnesium	ppm	<b>974</b>	66	399	---
Zinc	ppm	<b>1336</b>	1007	1288	---
Phosphorus	ppm	<b>1069</b>	843	1091	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>9</b>	55	450	---

**Depot:** VP1121775

**Unique No:** 10722500

**Signed:** Sean Felton

**Report Date:** 01 Nov 2023

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## GRAPHS

