

# OIL ANALYSIS REPORT

# VOLVO PENTA

**JACK GOODSELL 6373 VOLVO PENTA D6-435I-SC-F A383630 - DIESEL ENGINE**

**Sample No:** VPA060567

**Oil Type:** NOT GIVEN

## SAMPLE INFORMATION

Sample Number	<b>VPA060567</b>	VPA022687	---	---
Sample Date	<b>02 Nov 2023</b>	12 Aug 2020	---	---
Machine Hours	<b>371</b>	188	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Not Changd</b>	Not Changd	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

**Northwest Diesel Power**  
1325 ROEDER AVE SUITE 103  
BELLINGHAM, WA  
US 98225  
Contact: BRANDON ROBERTSON  
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T:  
F:

## OIL CONDITION

Visc @ 100°C	cSt	<b>13.6</b>	14.2	---	---
Base Number (BN)	mg KOH/g	<b>8.8</b>	---	---	---
Oxidation (PA)	%	<b>59</b>	49	---	---

## CONTAMINATION

Soot %	%	<b>0.2</b>	0.1	---	---
Nitration (PA)	%	<b>48</b>	54	---	---
Sulfation (PA)	%	<b>59</b>	50	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>6</b>	3	---	---
Sodium	ppm	<b>&lt;1</b>	0	---	---
Potassium	ppm	<b>&lt;1</b>	0	---	---

## 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>15</b>	6	---	---
Copper	ppm	<b>5</b>	<1	---	---
Lead	ppm	<b>1</b>	0	---	---
Tin	ppm	<b>&lt;1</b>	0	---	---
Aluminum	ppm	<b>4</b>	0	---	---
Chromium	ppm	<b>&lt;1</b>	0	---	---
Molybdenum	ppm	<b>92</b>	0	---	---
Nickel	ppm	<b>1</b>	0	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	0	---	---
Vanadium	ppm	<b>0</b>	0	---	---

## ADDITIVES

Calcium	ppm	<b>1483</b>	1236	---	---
Magnesium	ppm	<b>698</b>	641	---	---
Zinc	ppm	<b>899</b>	802	---	---
Phosphorus	ppm	<b>745</b>	676	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>295</b>	109	---	---

**Depot:** VP759009  
**Unique No:** 10727899  
**Signed:** Don Baldrige  
**Report Date:** 08 Nov 2023

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## GRAPHS

