

# OIL ANALYSIS REPORT

# VOLVO PENTA

## ML VOLVO PENTA A 1026817 - DIESEL ENGINE

Sample No: VPA049626

Oil Type: SHELL ROTELLA T4 15W40

### SAMPLE INFORMATION

Sample Number	VPA049626	---	---	---
Sample Date	27 Feb 2024	---	---	---
Machine Hours	787	---	---	---
Oil Hours	150	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### MARIA LANGER

3780 CATHEDRAL ROCK ROAD  
MALAGA, WA  
US 98828  
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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.4	---	---	---
Oxidation (PA)	%	65	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	67	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 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	█ 15	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 48	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1564	---	---	---
Magnesium	ppm	█ 560	---	---	---
Zinc	ppm	█ 1228	---	---	---
Phosphorus	ppm	█ 1050	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 34	---	---	---

Depot: VPMARMAL  
Unique No: 10929309  
Signed: Don Baldrige  
Report Date: 20 Mar 2024

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## GRAPHS

