

# OIL ANALYSIS REPORT

# VOLVO PENTA

## VOLVO PENTA 2071175619 - STARBOARD DIESEL ENGINE

Sample No: VPA055115

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA055115	VPA048474	---	---
Sample Date	09 Oct 2023	12 Oct 2022	---	---
Machine Hours	0	900	---	---
Oil Hours	30	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.1	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 8.8	█ 11.3	---	---
Oxidation (PA)	%	58	59	---	---

### CONTAMINATION

Soot %	%	█ 0.3	█ 0.4	---	---
Nitration (PA)	%	46	50	---	---
Sulfation (PA)	%	53	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 5	---	---
Sodium	ppm	█ 2	█ <1	---	---
Potassium	ppm	█ 4	█ 2	---	---

### WEAR METALS

Iron	ppm	█ 7	█ 10	---	---
Copper	ppm	█ 9	█ 11	---	---
Lead	ppm	█ 3	█ 4	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 1	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 20	█ 57	---	---
Nickel	ppm	█ 2	█ 2	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	<1	---	---

### ADDITIVES

Calcium	ppm	█ 1704	█ 1076	---	---
Magnesium	ppm	█ 321	█ 869	---	---
Zinc	ppm	█ 1087	█ 1211	---	---
Phosphorus	ppm	█ 931	█ 1000	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 126	█ 5	---	---

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### 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: VP153550

Unique No: 10696489

Signed: Don Baldrige

Report Date: 17 Oct 2023

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## GRAPHS

