

# OIL ANALYSIS REPORT

# VOLVO PENTA

## DELL DAHL GREG ELLIS VOLVO PENTA 2004016195 - STARBOARD DIESEL ENGINE

Sample No: VPA051668

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA051668	VPA042035	---	---
Sample Date	01 May 2024	23 May 2023	---	---
Machine Hours	590	562	---	---
Oil Hours	10	100	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	█ 13.9	---	---
Base Number (BN)	mg KOH/g	█ 10.0	█ 9.4	---	---
Oxidation (PA)	%	55	73	---	---

### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.3	---	---
Nitration (PA)	%	42	82	---	---
Sulfation (PA)	%	51	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 10	---	---
Sodium	ppm	█ 0	█ 6	---	---
Potassium	ppm	█ <1	█ 1	---	---

### WEAR METALS

Iron	ppm	█ 6	█ 59	---	---
Copper	ppm	█ 0	█ 13	---	---
Lead	ppm	█ 0	█ 7	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	█ 8	█ 34	---	---
Chromium	ppm	█ <1	█ 4	---	---
Molybdenum	ppm	█ 56	█ 55	---	---
Nickel	ppm	█ 0	█ 4	---	---
Titanium	ppm	█ 0	█ 1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ 1	---	---
Vanadium	ppm	0	<1	---	---

### ADDITIVES

Calcium	ppm	█ 1015	█ 1262	---	---
Magnesium	ppm	█ 939	█ 891	---	---
Zinc	ppm	█ 1195	█ 1252	---	---
Phosphorus	ppm	█ 1003	█ 1028	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ <1	█ 2	---	---

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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 suitable for further service.

Depot: VP648685

Unique No: 11007250

Signed: Jonathan Hester

Report Date: 06 May 2024

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## GRAPHS

