

OIL ANALYSIS REPORT

VOLVO PENTA

THOMAS GILLINGHAM SAM VOLVO PENTA 7008539178 - STARBOARD DIESEL ENGINE

Sample No: VPA059168

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA059168	---	---	---
Sample Date	10 Jan 2024	---	---	---
Machine Hours	350	---	---	---
Oil Hours	190	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 14.9	---	---	---
Base Number (BN)	mg KOH/g	█ 8.5	---	---	---
Oxidation (PA)	%	71	---	---	---

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.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 1.9	---	---	---
Nitration (PA)	%	81	---	---	---
Sulfation (PA)	%	73	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 17	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 35	---	---	---
Copper	ppm	█ 94	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 5	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 119	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1626	---	---	---
Magnesium	ppm	█ 733	---	---	---
Zinc	ppm	█ 963	---	---	---
Phosphorus	ppm	█ 803	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 216	---	---	---

Depot: VP794951
Unique No: 10836349
Signed: Angela Borella
Report Date: 22 Jan 2024

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GRAPHS

