

OIL ANALYSIS REPORT

**VOLVO
PENTA**

- CENTER DIESEL ENGINE

Sample No: VPA054059

Oil Type: SHELL Rotella T5 15W-40

SAMPLE INFORMATION

Sample Number	VPA054059	---	---	---
Sample Date	20 Apr 2024	---	---	---
Machine Hours	188	---	---	---
Oil Hours	77	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 8.6	---	---	---
Oxidation (PA)	%	55	---	---	---

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.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	49	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 11	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 75	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1319	---	---	---
Magnesium	ppm	█ 438	---	---	---
Zinc	ppm	█ 1185	---	---	---
Phosphorus	ppm	█ 1008	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 412	---	---	---

Depot: VPJOHPOU
Unique No: 11016895
Signed: Don Baldrige
Report Date: 08 May 2024

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GRAPHS

