

# OIL ANALYSIS REPORT

# VOLVO PENTA

## NORTHERN LIGHTS 068703F - GENSET

Sample No: VPA047219

Oil Type: SHELL ROTELLA T4 15W40

### SAMPLE INFORMATION

Sample Number	VPA047219	---	---	---
Sample Date	03 Sep 2023	---	---	---
Machine Hours	890	---	---	---
Oil Hours	290	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 7.6	---	---	---
Oxidation (PA)	%	62	---	---	---

### CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 15	---	---	---
Sodium	ppm	█ 162	---	---	---
Potassium	ppm	█ 16	---	---	---

### WEAR METALS

Iron	ppm	█ 34	---	---	---
Copper	ppm	█ 11	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 5	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 3	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	█ 2179	---	---	---
Magnesium	ppm	80	---	---	---
Zinc	ppm	█ 1213	---	---	---
Phosphorus	ppm	█ 913	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 224	---	---	---

#### GRAND BANKS

450 SW SALEM RD

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#### Diagnosis

No corrective action is recommended at this time. 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: VP531377

Unique No: 10642222

Signed: Doug Bogart

Report Date: 12 Sep 2023

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## GRAPHS

