

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## SGM32669N - GENSET

Sample No: VPA056311

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA056311	VPA056149	---	---
Sample Date	11 Aug 2023	03 Jul 2023	---	---
Machine Hours	1567	1100	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	█ 14.0	---	---
Base Number (BN)	mg KOH/g	█ 7.5	█ 7.2	---	---
Oxidation (PA)	%	56	54	---	---

### CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	68	68	---	---
Sulfation (PA)	%	50	48	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 6	---	---
Sodium	ppm	█ 0	█ 0	---	---
Potassium	ppm	█ 1	█ 2	---	---

### WEAR METALS

Iron	ppm	█ 5	█ 5	---	---
Copper	ppm	█ <1	█ <1	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 2	█ 2	---	---
Chromium	ppm	█ 0	█ 0	---	---
Molybdenum	ppm	█ 90	█ 85	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ 0	█ 0	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	█ 2131	█ 2012	---	---
Magnesium	ppm	178	168	---	---
Zinc	ppm	█ 1255	█ 1207	---	---
Phosphorus	ppm	█ 1072	█ 1025	---	---
Barium	ppm	█ 2	█ 0	---	---
Boron	ppm	█ 60	█ 60	---	---

### ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2  
NAPLES, FL  
US 34104  
Contact: KEITH SPICER  
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T: (239)580-8731  
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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 suitable for further service.

Depot: VPADVNP  
Unique No: 10603040  
Signed: Doug Bogart  
Report Date: 14 Aug 2023

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## GRAPHS

