

# OIL ANALYSIS REPORT



**DAVID KIRK CUMMINS G160974341 - GENSET**

**Sample No:** VPA059809

**Oil Type:** SHELL ROTELLA T 15W40

## SAMPLE INFORMATION

Sample Number	<b>VPA059809</b>	VPA044810	---	---
Sample Date	<b>29 Oct 2023</b>	22 Nov 2022	---	---
Machine Hours	<b>0</b>	0	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

### BAY MARINE

3 E MADISON ST  
 WAUKEGAN, IL  
 US 60085  
 Contact: BRENDAN COWHEY  
 brendan@baymarine.net  
 T: (847)336-2628  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>14.0</b>	14.3	---	---
Base Number (BN)	mg KOH/g	<b>8.1</b>	9.3	---	---
Oxidation (PA)	%	<b>63</b>	72	---	---

## CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	---	---
Nitration (PA)	%	<b>47</b>	57	---	---
Sulfation (PA)	%	<b>54</b>	61	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>4</b>	6	---	---
Sodium	ppm	<b>2</b>	3	---	---
Potassium	ppm	<b>6</b>	8	---	---

### 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.

## WEAR METALS

Iron	ppm	<b>2</b>	6	---	---
Copper	ppm	<b>0</b>	2	---	---
Lead	ppm	<b>0</b>	1	---	---
Tin	ppm	<b>0</b>	<1	---	---
Aluminum	ppm	<b>&lt;1</b>	<1	---	---
Chromium	ppm	<b>0</b>	<1	---	---
Molybdenum	ppm	<b>0</b>	4	---	---
Nickel	ppm	<b>0</b>	<1	---	---
Titanium	ppm	<b>0</b>	<1	---	---
Silver	ppm	<b>0</b>	<1	---	---
Manganese	ppm	<b>&lt;1</b>	<1	---	---
Vanadium	ppm	<b>0</b>	0	---	---

## ADDITIVES

Calcium	ppm	<b>1862</b>	2243	---	---
Magnesium	ppm	<b>78</b>	50	---	---
Zinc	ppm	<b>1054</b>	1263	---	---
Phosphorus	ppm	<b>975</b>	1005	---	---
Barium	ppm	<b>4</b>	0	---	---
Boron	ppm	<b>196</b>	193	---	---

**Depot:** VP1174336  
**Unique No:** 10715315  
**Signed:** Don Baldrige  
**Report Date:** 31 Oct 2023

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# VOLVO PENTA

## GRAPHS

