

# OIL ANALYSIS REPORT



## PEDRO GONZALEZ FISHER PANDA SN2005373 - GENSET

**Sample No:** VPA036884  
**Oil Type:** SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA036884</b>	VPA043834	VPA039603	---
Sample Date	<b>15 Jan 2024</b>	16 Nov 2022	03 Nov 2021	---
Machine Hours	<b>138</b>	94	88	---
Oil Hours	<b>138</b>	94	88	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**Larry's Lighthouse Marina**  
 1250  
 AQUEBOGUE, NY  
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 T: x:  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.1</b>	14.2	12.7	---
Base Number (BN)	mg KOH/g	<b>8.3</b>	9.7	---	---
Oxidation (PA)	%	<b>68</b>	69	37	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.2	---
Nitration (PA)	%	<b>45</b>	48	50	---
Sulfation (PA)	%	<b>56</b>	59	39	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	15	23	---
Sodium	ppm	<b>2</b>	<1	2	---
Potassium	ppm	<b>7</b>	8	1	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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.

### WEAR METALS

Iron	ppm	<b>3</b>	7	31	---
Copper	ppm	<b>1</b>	2	13	---
Lead	ppm	<b>&lt;1</b>	<1	3	---
Tin	ppm	<b>&lt;1</b>	0	1	---
Aluminum	ppm	<b>2</b>	2	5	---
Chromium	ppm	<b>&lt;1</b>	<1	1	---
Molybdenum	ppm	<b>&lt;1</b>	2	10	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>0</b>	<1	2	---
Vanadium	ppm	<b>&lt;1</b>	0	<1	---

### ADDITIVES

Calcium	ppm	<b>2066</b>	2419	3483	---
Magnesium	ppm	<b>20</b>	11	18	---
Zinc	ppm	<b>1157</b>	1112	735	---
Phosphorus	ppm	<b>988</b>	954	649	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>191</b>	178	11	---

**Depot:** VP610438  
**Unique No:** 10843039  
**Signed:** Angela Borella  
**Report Date:** 23 Jan 2024

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**VOLVO  
PENTA**

## GRAPHS

