

# OIL ANALYSIS REPORT



## PROUD MARY 4080 51068 - CENTER DIESEL ENGINE

**Sample No:** VPA054097  
**Oil Type:** SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA054097</b>	VPA028754	VPA032094	VPA024460
Sample Date	<b>29 May 2024</b>	09 Feb 2022	23 Feb 2021	07 Dec 2018
Machine Hours	<b>536</b>	447	420	298
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**The Talaria Company**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.8</b>	14.3	14.1	13.68
Base Number (BN)	mg KOH/g	<b>8.2</b>	9.5	---	---
Oxidation (PA)	%	<b>69</b>	73	73	48

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>65</b>	59	56	54
Sulfation (PA)	%	<b>56</b>	61	61	43
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	0	3	1
Sodium	ppm	<b>5</b>	0	2	2
Potassium	ppm	<b>7</b>	8	5	2

### 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.

### WEAR METALS

Iron	ppm	<b>13</b>	10	8	17
Copper	ppm	<b>39</b>	9	7	6
Lead	ppm	<b>&lt;1</b>	0	2	<1
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>6</b>	<1	2	3
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>9</b>	3	3	53
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>2106</b>	2097	2358	1131
Magnesium	ppm	<b>121</b>	0	41	872
Zinc	ppm	<b>1187</b>	1072	1157	1091
Phosphorus	ppm	<b>1024</b>	880	1055	975
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>178</b>	202	174	4

**Depot:** VP592286  
**Unique No:** 11061884  
**Signed:** Sean Felton  
**Report Date:** 07 Jun 2024

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**VOLVO  
PENTA**

## GRAPHS

