

# OIL ANALYSIS REPORT



## HARRY VERBY KOHLER SGM32JRZN - GENSET

Sample No: VPA036699

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA036699</b>	VPA043527	VPA033101	VPA033783
Sample Date	<b>15 Dec 2023</b>	22 Nov 2022	24 Nov 2021	02 Nov 2020
Machine Hours	<b>40</b>	37	34	23
Oil Hours	<b>40</b>	37	34	0
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	NORMAL

### Larry's Lighthouse Marina

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AQUEBOGUE, NY  
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T: x:

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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.3</b>	14.4	14.2	14.2
Base Number (BN)	mg KOH/g	<b>8.0</b>	9.3	8.40	---
Oxidation (PA)	%	<b>70</b>	75	74	72

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0</b>	0.1	0.1	0
Nitration (PA)	%	<b>43</b>	48	48	44
Sulfation (PA)	%	<b>57</b>	61	58	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>20</b>	17	78	59
Sodium	ppm	<b>2</b>	2	5	7
Potassium	ppm	<b>8</b>	7	6	6

### 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>1</b>	3	8	6
Copper	ppm	<b>1</b>	<1	4	3
Lead	ppm	<b>&lt;1</b>	<1	3	<1
Tin	ppm	<b>0</b>	<1	1	<1
Aluminum	ppm	<b>1</b>	1	1	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>3</b>	2	7	8
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	6	0
Manganese	ppm	<b>&lt;1</b>	<1	2	2
Vanadium	ppm	<b>&lt;1</b>	<1	<1	0

### ADDITIVES

Calcium	ppm	<b>1994</b>	2088	2186	1964
Magnesium	ppm	<b>18</b>	17	42	49
Zinc	ppm	<b>1161</b>	1119	1144	1030
Phosphorus	ppm	<b>995</b>	944	949	892
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>180</b>	182	150	187

Depot: VP610438

Unique No: 10843044

Signed: Angela Borella

Report Date: 23 Jan 2024

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# VOLVO PENTA

## GRAPHS

