

OIL ANALYSIS REPORT

**VOLVO
PENTA**

SHANNANDOAH A130437326 - CENTER GENSET

Sample No: VPA058442

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA058442	VPA044229	VPA043541	VPA032090
Sample Date	27 Nov 2023	14 Dec 2022	10 Dec 2021	19 Feb 2021
Machine Hours	273	234	202	174
Oil Hours	36	0	15	0
Oil Changed	Changed	Changed	Not Changd	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

The Talaria Company

202 Banks St., One Little Harbor Landing
OXFORD, MD

US 21654

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OIL CONDITION

Visc @ 100°C	cSt	13.8	14.1	14.5	13.5
Base Number (BN)	mg KOH/g	9.3	8.9	---	---
Oxidation (PA)	%	62	63	67	63

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0	0.1
Nitration (PA)	%	49	47	48	51
Sulfation (PA)	%	52	55	57	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	7	7
Sodium	ppm	2	2	2	3
Potassium	ppm	<1	7	8	12

WEAR METALS

Iron	ppm	1	2	2	3
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	<1	2	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	1	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	37	<1	4	12
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1716	2188	2179	2309
Magnesium	ppm	436	14	29	34
Zinc	ppm	1340	1099	1172	1080
Phosphorus	ppm	1065	957	1010	1016
Barium	ppm	0	0	0	0
Boron	ppm	77	201	227	163

Diagnosis

Oil and filter change at the time of sampling has been noted. 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: VP592286

Unique No: 10767892

Signed: Sean Felton

Report Date: 05 Dec 2023

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GRAPHS

