

OIL ANALYSIS REPORT

**VOLVO
PENTA**

SUMNER ROAD 1098 - CENTER DIESEL ENGINE

Sample No: VPA059681

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA059681	VPA056952	VPA043561	VPA033075
Sample Date	30 Nov 2023	02 Feb 2023	10 Dec 2021	06 Jan 2021
Machine Hours	922	896	866	0
Oil Hours	27	34	46	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	13.8	14.3	13.5
Base Number (BN)	mg KOH/g	9.2	8.4	8.8	---
Oxidation (PA)	%	65	66	71	64

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	55	56	61	60
Sulfation (PA)	%	53	57	59	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	4	3
Sodium	ppm	<1	3	2	3
Potassium	ppm	3	7	6	7

WEAR METALS

Iron	ppm	4	8	8	6
Copper	ppm	2	3	4	8
Lead	ppm	0	0	2	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	1	<1	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	36	2	5	19
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1541	2094	2154	1770
Magnesium	ppm	371	27	77	218
Zinc	ppm	1111	1143	1203	995
Phosphorus	ppm	953	975	1053	858
Barium	ppm	3	<1	0	0
Boron	ppm	79	209	207	106

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.

Depot: VP592286

Unique No: 10778838

Signed: Don Baldrige

Report Date: 11 Dec 2023

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GRAPHS

