

# OIL ANALYSIS REPORT

# VOLVO PENTA

## TRAVELER EH M51003 - CENTER DIESEL ENGINE

Sample No: VPA059854

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA059854	VPA025361	VPA043920	VPA017563
Sample Date	27 Nov 2023	24 Jan 2023	28 Dec 2021	06 Mar 2019
Machine Hours	582	553	523	478
Oil Hours	51	31	22	478
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

### The Talaria Company

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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	█ 14.0	█ 14.1	█ 14.49
Base Number (BN)	mg KOH/g	█ 8.6	█ 8.9	█ 9.3	---
Oxidation (PA)	%	65	64	61	58

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	█ 0.1	█ 0.1	█ 0.1	█ 0.1
Nitration (PA)	%	50	51	48	43
Sulfation (PA)	%	55	55	53	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 2	█ 2	█ 2	█ 2
Sodium	ppm	█ 2	█ 1	█ 5	█ 6
Potassium	ppm	█ 4	█ 7	█ 5	█ 10

### 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.

### WEAR METALS

Iron	ppm	█ 1	█ 3	█ 4	█ 4
Copper	ppm	█ 10	█ 11	█ 13	█ 4
Lead	ppm	█ <1	█ 1	█ 0	█ 2
Tin	ppm	█ 0	█ <1	█ <1	█ 0
Aluminum	ppm	█ <1	█ <1	█ <1	█ <1
Chromium	ppm	█ 0	█ <1	█ <1	█ 0
Molybdenum	ppm	█ 9	█ 6	█ 18	█ 16
Nickel	ppm	█ 0	█ <1	█ <1	█ 0
Titanium	ppm	█ 0	█ 0	█ 0	█ 0
Silver	ppm	█ 0	█ 0	█ <1	█ 0
Manganese	ppm	█ 0	█ <1	█ <1	█ 2
Vanadium	ppm	0	<1	0	0

### ADDITIVES

Calcium	ppm	█ 2090	█ 2185	█ 1683	█ 2040
Magnesium	ppm	█ 129	█ 106	█ 288	█ 291
Zinc	ppm	█ 1300	█ 1282	█ 1004	█ 1159
Phosphorus	ppm	█ 1037	█ 1059	█ 943	█ 935
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 162	█ 187	█ 125	█ 131

Depot: VP592286  
Unique No: 10767898  
Signed: Sean Felton  
Report Date: 05 Dec 2023

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## GRAPHS

