

# OIL ANALYSIS REPORT

# VOLVO PENTA

## RAJ 8158 VOLVO PENTA RAJ (S/N NOT GIVEN) - STARBOARD DIESEL ENGINE

Sample No: VPA029849

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

Sample Number	VPA029849	---	---	---
Sample Date	19 Jul 2023	---	---	---
Machine Hours	1723	---	---	---
Oil Hours	150	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### Johnson & Towers, Inc

2021 Briggs Road  
MT.LAUREL, NJ  
US 08054  
Contact: BRENT BUZBY  
BBUZBY@JOHNSONTOWERS.COM  
T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.1	---	---	---
Base Number (BN)	mg KOH/g	█ 11.2	---	---	---
Oxidation (PA)	%	45	---	---	---

### CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 1	---	---	---

### 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	█ 10	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 7	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	3626	---	---	---
Magnesium	ppm	█ 136	---	---	---
Zinc	ppm	█ 1233	---	---	---
Phosphorus	ppm	█ 1037	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 18	---	---	---

Depot: VP855105  
Unique No: 10566549  
Signed: Sean Felton  
Report Date: 25 Jul 2023

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## GRAPHS

