

# OIL ANALYSIS REPORT



## ONAN D140659611 - GENSET

Sample No: VPA051564

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

### SAMPLE INFORMATION

Sample Number	VPA051564	VPA047743	VPA014550	---
Sample Date	13 Feb 2024	25 Apr 2023	01 Nov 2022	---
Machine Hours	2794	2756	2634	---
Oil Hours	100	0	300	---
Oil Changed	Not Changd	Not Changd	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

FDDA FT PIERCE - POWER CENTER

FORT PIERCE, FL

US

Contact: KYLE GRASER

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### OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 13.0	█ 12.8	---
Base Number (BN)	mg KOH/g	█ 9.8	█ 9.7	█ 10.9	---
Oxidation (PA)	%	55	57	63	---

### Diagnosis

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.

### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0	█ 0.1	█ 0.1	---
Nitration (PA)	%	38	42	54	---
Sulfation (PA)	%	51	52	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 4	█ 6	█ 4	---
Sodium	ppm	█ 2	█ <1	█ 2	---
Potassium	ppm	█ 2	█ <1	█ 0	---

### WEAR METALS

Iron	ppm	█ 2	█ 1	█ 4	---
Copper	ppm	█ <1	█ 0	█ <1	---
Lead	ppm	█ 0	█ 0	█ <1	---
Tin	ppm	█ 0	█ 0	█ <1	---
Aluminum	ppm	█ 1	█ <1	█ <1	---
Chromium	ppm	█ 0	█ 0	█ <1	---
Molybdenum	ppm	█ 57	█ 52	█ 55	---
Nickel	ppm	█ 0	█ 0	█ 0	---
Titanium	ppm	<1	█ 0	█ 0	---
Silver	ppm	█ 0	█ 0	0	---
Manganese	ppm	█ 0	█ <1	█ <1	---
Vanadium	ppm	0	0	0	---

### ADDITIVES

Calcium	ppm	█ 967	█ 976	█ 1055	---
Magnesium	ppm	█ 913	█ 875	█ 925	---
Zinc	ppm	█ 1154	█ 1171	█ 1237	---
Phosphorus	ppm	█ 886	█ 909	█ 959	---
Barium	ppm	█ 11	█ 0	█ 0	---
Boron	ppm	█ <1	█ <1	█ 2	---

Depot: VP208659

Unique No: 10882772

Signed: Doug Bogart

Report Date: 16 Feb 2024

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**VOLVO  
PENTA**

## GRAPHS

