

# OIL ANALYSIS REPORT



**LUCAS STOIOFF 505732 ONAN F160967235 - GENSET**

**Sample No:** VPA057304  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

## SAMPLE INFORMATION

Sample Number	<b>VPA057304</b>	VPA041028	VPA028501	---
Sample Date	<b>20 Mar 2024</b>	19 Dec 2022	20 Jan 2022	---
Machine Hours	<b>804</b>	727	634	---
Oil Hours	<b>804</b>	100	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.9</b>	13.3	13.7	---
Base Number (BN)	mg KOH/g	<b>7.8</b>	10.2	11.1	---
Oxidation (PA)	%	<b>56</b>	57	69	---

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.2	---
Nitration (PA)	%	<b>57</b>	50	70	---
Sulfation (PA)	%	<b>50</b>	52	58	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>4</b>	6	9	---
Sodium	ppm	<b>1</b>	2	4	---
Potassium	ppm	<b>0</b>	1	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 suitable for further service.

## WEAR METALS

Iron	ppm	<b>3</b>	5	10	---
Copper	ppm	<b>&lt;1</b>	1	4	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>0</b>	<1	<1	---
Aluminum	ppm	<b>2</b>	<1	<1	---
Chromium	ppm	<b>0</b>	<1	11	---
Molybdenum	ppm	<b>62</b>	61	58	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	<1	4	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	<1	---

## ADDITIVES

Calcium	ppm	<b>1870</b>	1099	1196	---
Magnesium	ppm	<b>252</b>	933	977	---
Zinc	ppm	<b>1131</b>	1205	1109	---
Phosphorus	ppm	<b>969</b>	1024	1038	---
Barium	ppm	<b>0</b>	2	<1	---
Boron	ppm	<b>84</b>	0	5	---

**Depot:** VP297371  
**Unique No:** 10943355  
**Signed:** Jonathan Hester  
**Report Date:** 28 Mar 2024

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**VOLVO  
PENTA**

## GRAPHS

