



# CONSTRUCTION EQUIPMENT

134653 IAA VOLVO L90H 626049 - DIESEL ENGINE



**Sample No:** VCP413749  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 134653 IAA



## SAMPLE INFORMATION

Sample Number	<b>VCP413749</b>	VCP420742	VCP385981	---
Sample Date	<b>29 Jan 2024</b>	07 Aug 2023	23 Jan 2023	---
Machine Hours	<b>4171</b>	3400	2169	---
Oil Hours	<b>0</b>	0	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>13.2</b>	13.4	13.3	---
Base Number (BN)	mg KOH/g	<b>10.2</b>	9.2	8.9	---
Oxidation (PA)	%	<b>83</b>	88	83	---

## 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.

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.4</b>	0.6	0.5	---
Nitration (PA)	%	<b>66</b>	81	74	---
Sulfation (PA)	%	<b>61</b>	61	57	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	6	9	---
Sodium	ppm	<b>4</b>	4	4	---
Potassium	ppm	<b>1</b>	<1	0	---

## WEAR METALS

Iron	ppm	<b>53</b>	104	122	---
Copper	ppm	<b>&lt;1</b>	2	4	---
Lead	ppm	<b>&lt;1</b>	<1	0	---
Tin	ppm	<b>&lt;1</b>	1	1	---
Aluminum	ppm	<b>4</b>	4	4	---
Chromium	ppm	<b>&lt;1</b>	2	3	---
Molybdenum	ppm	<b>41</b>	41	44	---
Nickel	ppm	<b>&lt;1</b>	<1	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>1</b>	2	2	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1633</b>	1768	1621	---
Magnesium	ppm	<b>522</b>	537	547	---
Zinc	ppm	<b>1148</b>	1213	1085	---
Phosphorus	ppm	<b>969</b>	995	934	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>33</b>	20	26	---

**Depot:** VOLVO0053  
**Unique No:** 10964411  
**Signed:** Wes Davis  
**Report Date:** 05 Apr 2024



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## GRAPHS

