



# CONSTRUCTION EQUIPMENT

672669 VOLVO L90H 626530 - DIESEL ENGINE



**Sample No:** VCP428652  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 672669



## SAMPLE INFORMATION

Sample Number	<b>VCP428652</b>	VCP407839	VCP409323	---
Sample Date	<b>05 Feb 2024</b>	12 Jun 2023	20 Feb 2023	---
Machine Hours	<b>2534</b>	1297	546	---
Oil Hours	<b>500</b>	500	546	---
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>13.1</b>	13.1	12.6	---
Base Number (BN)	mg KOH/g	<b>10.5</b>	9.8	10.5	---
Oxidation (PA)	%	<b>78</b>	84	73	---



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.9</b>	0.7	0.4	---
Nitration (PA)	%	<b>63</b>	68	58	---
Sulfation (PA)	%	<b>62</b>	62	60	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>7</b>	8	13	---
Sodium	ppm	<b>3</b>	3	4	---
Potassium	ppm	<b>1</b>	0	0	---



## WEAR METALS

Iron	ppm	<b>22</b>	30	30	---
Copper	ppm	<b>2</b>	2	8	---
Lead	ppm	<b>&lt;1</b>	0	1	---
Tin	ppm	<b>2</b>	2	2	---
Aluminum	ppm	<b>7</b>	4	18	---
Chromium	ppm	<b>2</b>	2	4	---
Molybdenum	ppm	<b>45</b>	44	34	---
Nickel	ppm	<b>1</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>&lt;1</b>	0	<1	---
Manganese	ppm	<b>1</b>	<1	4	---
Vanadium	ppm	<b>&lt;1</b>	0	<1	---



## ADDITIVES

Calcium	ppm	<b>1684</b>	1683	1507	---
Magnesium	ppm	<b>500</b>	543	540	---
Zinc	ppm	<b>1120</b>	1089	988	---
Phosphorus	ppm	<b>898</b>	891	828	---
Barium	ppm	<b>1</b>	0	0	---
Boron	ppm	<b>23</b>	22	40	---

## 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.

**Depot:** GREDAVFL  
**Unique No:** 10900911  
**Signed:** Wes Davis  
**Report Date:** 29 Feb 2024



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## GRAPHS

