



# CONSTRUCTION EQUIPMENT

S1054 AGROMIA VOLVO L90H 632394 - DIESEL ENGINE



**Sample No:** VCP424180  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** S1054 AGROMIA



## SAMPLE INFORMATION

Sample Number	<b>VCP424180</b>	VCP397921	VCP386596	---
Sample Date	<b>05 Oct 2023</b>	31 Mar 2023	21 Dec 2022	---
Machine Hours	<b>2598</b>	1061	499	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
 8594 FRUITRIDGE ROAD  
 SACRAMENTO, CA  
 US 95826  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.8</b>	13.0	12.6	---
Base Number (BN)	mg KOH/g	<b>8.0</b>	10.3	10	---
Oxidation (PA)	%	<b>51</b>	83	76	---



## CONTAMINATION

Soot %	%	<b>0.1</b>	0.2	0.2	---
Nitration (PA)	%	<b>61</b>	58	58	---
Sulfation (PA)	%	<b>48</b>	61	62	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	7	11	---
Sodium	ppm	<b>&lt;1</b>	2	2	---
Potassium	ppm	<b>&lt;1</b>	1	3	---



## WEAR METALS

Iron	ppm	<b>4</b>	13	22	---
Copper	ppm	<b>&lt;1</b>	5	12	---
Lead	ppm	<b>0</b>	<1	2	---
Tin	ppm	<b>&lt;1</b>	2	2	---
Aluminum	ppm	<b>2</b>	8	39	---
Chromium	ppm	<b>&lt;1</b>	1	2	---
Molybdenum	ppm	<b>3</b>	37	43	---
Nickel	ppm	<b>0</b>	<1	0	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	1	<1	---
Manganese	ppm	<b>&lt;1</b>	<1	2	---
Vanadium	ppm	<b>0</b>	0	<1	---



## ADDITIVES

Calcium	ppm	<b>1270</b>	1475	1520	---
Magnesium	ppm	<b>711</b>	453	558	---
Zinc	ppm	<b>840</b>	1031	1104	---
Phosphorus	ppm	<b>720</b>	839	955	---
Barium	ppm	<b>&lt;1</b>	0	<1	---
Boron	ppm	<b>74</b>	38	78	---

## 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:** VOLVO4485  
**Unique No:** 10699467  
**Signed:** Don Baldrige  
**Report Date:** 19 Oct 2023



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## GRAPHS

