



# CONSTRUCTION EQUIPMENT

716046 IAA VOLVO L90H 625538 - DIESEL ENGINE



**Sample No:** VCP433178  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 716046 IAA



## SAMPLE INFORMATION

Sample Number	<b>VCP433178</b>	VCP433181	VCP382379	---
Sample Date	<b>16 May 2024</b>	10 Jan 2024	16 Nov 2022	---
Machine Hours	<b>5691</b>	5139	3412	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

### ALTA EQUIPMENT COMPANY

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## OIL CONDITION

Visc @ 100°C	cSt	<b>14.2</b>	14.7	13.7	---
Base Number (BN)	mg KOH/g	<b>9.1</b>	9.1	12.1	---
Oxidation (PA)	%	<b>65</b>	65	87	---



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.7</b>	0.7	0.7	---
Nitration (PA)	%	<b>76</b>	78	78	---
Sulfation (PA)	%	<b>55</b>	55	67	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>4</b>	5	5	---
Sodium	ppm	<b>2</b>	2	2	---
Potassium	ppm	<b>1</b>	2	0	---



## WEAR METALS

Iron	ppm	<b>10</b>	12	11	---
Copper	ppm	<b>2</b>	1	1	---
Lead	ppm	<b>0</b>	<1	<1	---
Tin	ppm	<b>&lt;1</b>	<1	<1	---
Aluminum	ppm	<b>6</b>	5	4	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>64</b>	65	47	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	<1	0	---



## ADDITIVES

Calcium	ppm	<b>1144</b>	1112	1733	---
Magnesium	ppm	<b>1030</b>	1101	599	---
Zinc	ppm	<b>1340</b>	1379	1168	---
Phosphorus	ppm	<b>1109</b>	1159	994	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>&lt;1</b>	0	11	---

### 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:** VOLVO0095  
**Unique No:** 11042538  
**Signed:** Jonathan Hester  
**Report Date:** 23 May 2024



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## GRAPHS

