



# CONSTRUCTION EQUIPMENT

## VOLVO L70H 624395 - DIESEL ENGINE



**Sample No:** VCP430276  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP430276</b>	VCP420484	VCP390548	---
Sample Date	<b>26 Oct 2023</b>	01 May 2023	18 Nov 2022	---
Machine Hours	<b>0</b>	0	1053	---
Oil Hours	<b>0</b>	0	1053	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

### COWIN EQUIPMENT COMPANY

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.1	13.3	---
Base Number (BN)	mg KOH/g	<b>10.3</b>	11.2	9.8	---
Oxidation (PA)	%	<b>80</b>	82	82	---

### 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>0.5</b>	0.3	0.5	---
Nitration (PA)	%	<b>62</b>	54	63	---
Sulfation (PA)	%	<b>61</b>	63	63	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>7</b>	7	9	---
Sodium	ppm	<b>3</b>	3	3	---
Potassium	ppm	<b>&lt;1</b>	<1	0	---



### WEAR METALS

Iron	ppm	<b>16</b>	12	20	---
Copper	ppm	<b>2</b>	<1	2	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>1</b>	<1	2	---
Aluminum	ppm	<b>7</b>	1	12	---
Chromium	ppm	<b>1</b>	1	3	---
Molybdenum	ppm	<b>43</b>	41	40	---
Nickel	ppm	<b>&lt;1</b>	0	<1	---
Titanium	ppm	<b>&lt;1</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1697</b>	1804	1694	---
Magnesium	ppm	<b>509</b>	509	530	---
Zinc	ppm	<b>1130</b>	1168	1115	---
Phosphorus	ppm	<b>964</b>	957	951	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>36</b>	54	41	---

**Depot:** VOLVO8532  
**Unique No:** 10871885  
**Signed:** Wes Davis  
**Report Date:** 09 Feb 2024



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## GRAPHS

