



# CONSTRUCTION EQUIPMENT

616970 FRITZ VOLVO L70H 623207 - DIESEL ENGINE



**Sample No:** VCP452382  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 616970 FRITZ



## SAMPLE INFORMATION

Sample Number	<b>VCP452382</b>	VCP406660	VCP396057	---
Sample Date	<b>15 Jan 2024</b>	08 May 2023	03 Nov 2022	---
Machine Hours	<b>6390</b>	5540	4774	---
Oil Hours	<b>850</b>	500	2100	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.9</b>	13.2	15.6	---
Base Number (BN)	mg KOH/g	<b>5.7</b>	6.4	11.0	---
Oxidation (PA)	%	<b>87</b>	88	46	---

## 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 acceptable for the time in service.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.6</b>	0.5	0.1	---
Nitration (PA)	%	<b>98</b>	102	180	---
Sulfation (PA)	%	<b>66</b>	65	42	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	6	13	---
Sodium	ppm	<b>5</b>	2	2	---
Potassium	ppm	<b>&lt;1</b>	1	3	---



## WEAR METALS

Iron	ppm	<b>20</b>	24	61	---
Copper	ppm	<b>2</b>	4	7	---
Lead	ppm	<b>&lt;1</b>	<1	2	---
Tin	ppm	<b>0</b>	<1	2	---
Aluminum	ppm	<b>5</b>	7	19	---
Chromium	ppm	<b>1</b>	2	4	---
Molybdenum	ppm	<b>57</b>	57	53	---
Nickel	ppm	<b>0</b>	<1	0	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	1	---
Vanadium	ppm	<b>0</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>1059</b>	1108	1825	---
Magnesium	ppm	<b>877</b>	814	319	---
Zinc	ppm	<b>1077</b>	1134	1003	---
Phosphorus	ppm	<b>853</b>	891	812	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>2</b>	1	26	---

**Depot:** VOLVO2990  
**Unique No:** 10845930  
**Signed:** Sean Felton  
**Report Date:** 26 Jan 2024



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## GRAPHS

