



# CONSTRUCTION EQUIPMENT

608010 TOEBE VOLVO L150H 632757 - DIESEL ENGINE



**Sample No:** VCP431915  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 608010 TOEBE



## SAMPLE INFORMATION

Sample Number	<b>VCP431915</b>	VCP402584	VCP402121	VCP387827
Sample Date	<b>10 Oct 2023</b>	10 Mar 2023	21 Dec 2022	04 Oct 2022
Machine Hours	<b>6938</b>	5685	5163	4620
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



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

Visc @ 100°C	cSt	<b>14.0</b>	14.6	13.9	13.6
Base Number (BN)	mg KOH/g	<b>9.4</b>	9.6	10.0	10.7
Oxidation (PA)	%	<b>65</b>	59	63	69



## CONTAMINATION

Soot %	%	<b>0.4</b>	0.3	0.3	0.4
Nitration (PA)	%	<b>69</b>	60	67	74
Sulfation (PA)	%	<b>54</b>	52	55	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	1	2	4
Sodium	ppm	<b>2</b>	0	<1	0
Potassium	ppm	<b>2</b>	2	0	1



## WEAR METALS

Iron	ppm	<b>10</b>	10	4	11
Copper	ppm	<b>1</b>	1	2	2
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	1	<1
Aluminum	ppm	<b>4</b>	5	4	5
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>59</b>	61	61	65
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1101</b>	1107	1116	1147
Magnesium	ppm	<b>1044</b>	931	1006	945
Zinc	ppm	<b>1183</b>	1249	1324	1298
Phosphorus	ppm	<b>1067</b>	1039	1039	1075
Barium	ppm	<b>0</b>	2	0	2
Boron	ppm	<b>0</b>	0	<1	2

## 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:** VOLVO2990  
**Unique No:** 10729740  
**Signed:** Jonathan Hester  
**Report Date:** 09 Nov 2023



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## GRAPHS

