



# CONSTRUCTION EQUIPMENT

## 12000 CLEAN EARTH VOLVO L110H 632013 - DIESEL ENGINE



**Sample No:** VCP444088  
**Oil Type:** MOBIL 15W40  
**Job No:** 12000 CLEAN EARTH



### SAMPLE INFORMATION

Sample Number	<b>VCP444088</b>	VCP407488	VCP321676	---
Sample Date	<b>01 Feb 2024</b>	02 May 2023	14 Jul 2021	---
Machine Hours	<b>4558</b>	4010	885	---
Oil Hours	<b>0</b>	500	500	---
Oil Changed	<b>N/A</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	---

**HOFFMAN EQUIPMENT - LIONVILLE**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	13.9	13.2	---
Base Number (BN)	mg KOH/g	<b>6.0</b>	3.5	---	---
Oxidation (PA)	%	<b>50</b>	75	81	---

### 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>	0.9	0.5	---
Nitration (PA)	%	<b>70</b>	89	85	---
Sulfation (PA)	%	<b>55</b>	66	65	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>4</b>	9	11	---
Sodium	ppm	<b>0</b>	2	4	---
Potassium	ppm	<b>2</b>	2	2	---



### WEAR METALS

Iron	ppm	<b>12</b>	38	33	---
Copper	ppm	<b>3</b>	7	18	---
Lead	ppm	<b>2</b>	3	5	---
Tin	ppm	<b>2</b>	1	2	---
Aluminum	ppm	<b>3</b>	10	21	---
Chromium	ppm	<b>&lt;1</b>	<1	2	---
Molybdenum	ppm	<b>16</b>	100	41	---
Nickel	ppm	<b>1</b>	0	<1	---
Titanium	ppm	<b>&lt;1</b>	0	11	---
Silver	ppm	<b>&lt;1</b>	0	<1	---
Manganese	ppm	<b>1</b>	1	3	---
Vanadium	ppm	<b>&lt;1</b>	0	<1	---



### ADDITIVES

Calcium	ppm	<b>1327</b>	2193	1608	---
Magnesium	ppm	<b>63</b>	31	484	---
Zinc	ppm	<b>710</b>	1321	1047	---
Phosphorus	ppm	<b>579</b>	1040	947	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>3</b>	18	34	---

**Depot:** VOLVO8879  
**Unique No:** 10869633  
**Signed:** Jonathan Hester  
**Report Date:** 09 Feb 2024



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## GRAPHS

