



# CONSTRUCTION EQUIPMENT

## SPM567082 RENTALS VOLVO L120H 632941 - DIESEL ENGINE



**Sample No:** VCP423171  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM567082 RENTALS



### SAMPLE INFORMATION

Sample Number	<b>VCP423171</b>	VCP366913	VCP358335	VCP320690
Sample Date	<b>20 Jun 2023</b>	14 Sep 2022	05 Apr 2022	11 Oct 2021
Machine Hours	<b>2611</b>	2013	1182	525
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.1</b>	13.9	13.7	12.6
Base Number (BN)	mg KOH/g	<b>9.4</b>	9.7	10.1	---
Oxidation (PA)	%	<b>68</b>	77	74	80



### CONTAMINATION

Soot %	%	<b>0.4</b>	0.4	0.3	0.2
Nitration (PA)	%	<b>76</b>	83	73	63
Sulfation (PA)	%	<b>57</b>	61	60	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	7	5	17
Sodium	ppm	<b>&lt;1</b>	3	1	5
Potassium	ppm	<b>2</b>	1	<1	0



### WEAR METALS

Iron	ppm	<b>19</b>	18	18	23
Copper	ppm	<b>5</b>	6	5	12
Lead	ppm	<b>&lt;1</b>	4	1	3
Tin	ppm	<b>1</b>	<1	2	0
Aluminum	ppm	<b>11</b>	3	9	40
Chromium	ppm	<b>2</b>	1	2	3
Molybdenum	ppm	<b>62</b>	53	61	36
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	<1	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	3
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1122</b>	844	1439	1529
Magnesium	ppm	<b>1030</b>	862	831	597
Zinc	ppm	<b>1392</b>	1025	1260	1116
Phosphorus	ppm	<b>1093</b>	994	1095	963
Barium	ppm	<b>0</b>	0	0	6
Boron	ppm	<b>&lt;1</b>	<1	25	47

### 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:** VOLVO8885  
**Unique No:** 10548410  
**Signed:** Wes Davis  
**Report Date:** 10 Jul 2023



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## GRAPHS

