



# CONSTRUCTION EQUIPMENT

## 10023 VOLVO L220H 3434 - DIESEL ENGINE



**Sample No:** VCP422884  
**Oil Type:** CHEVRON 15W40  
**Job No:** 10023



### SAMPLE INFORMATION

Sample Number	<b>VCP422884</b>	VCP413947	VCP416664	VCP371311
Sample Date	<b>12 Dec 2023</b>	03 Aug 2023	18 May 2023	10 Jan 2023
Machine Hours	<b>4298</b>	3085	2358	1060
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

**RECYCLE 1**  
 4700 LAWRENCE ST  
 HYATTSVILLE, MD  
 US 20781  
 Contact: MIKE DESJARDINS  
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 T:  
 F:

### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.0	12.8	13.1
Base Number (BN)	mg KOH/g	<b>5.7</b>	6.3	5.3	6.1
Oxidation (PA)	%	<b>71</b>	63	75	45

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.2	0.3	0.1
Nitration (PA)	%	<b>63</b>	61	69	60
Sulfation (PA)	%	<b>65</b>	60	68	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>16</b>	9	14	8
Sodium	ppm	<b>&lt;1</b>	<1	4	<1
Potassium	ppm	<b>2</b>	3	3	2

### WEAR METALS

Iron	ppm	<b>11</b>	7	14	6
Copper	ppm	<b>2</b>	4	39	256
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>0</b>	<1	1	<1
Aluminum	ppm	<b>3</b>	1	0	0
Chromium	ppm	<b>0</b>	<1	0	0
Molybdenum	ppm	<b>83</b>	79	82	13
Nickel	ppm	<b>&lt;1</b>	<1	<1	0
Titanium	ppm	<b>1</b>	<1	2	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1550</b>	1274	1710	2413
Magnesium	ppm	<b>424</b>	381	442	36
Zinc	ppm	<b>1270</b>	1193	1211	1098
Phosphorus	ppm	<b>1133</b>	935	902	914
Barium	ppm	<b>0</b>	0	0	1
Boron	ppm	<b>223</b>	249	142	5

### 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:** RECHYA  
**Unique No:** 10790929  
**Signed:** Wes Davis  
**Report Date:** 16 Dec 2023



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## GRAPHS

