



# CONSTRUCTION EQUIPMENT

## A11498 VOLVO L120H 632331 - DIESEL ENGINE



**Sample No:** VCP434127  
**Oil Type:** MOBIL 15W40  
**Job No:** A11498



### SAMPLE INFORMATION

Sample Number	<b>VCP434127</b>	VCP424775	VCP416384	VCP406364
Sample Date	<b>05 Dec 2023</b>	28 Aug 2023	14 Jun 2023	03 Apr 2023
Machine Hours	<b>12000</b>	11470	10995	10495
Oil Hours	<b>500</b>	500	500	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**WASTE MANAGEMENT - TELFORD**  
 400 PROGRESS DR  
 TELFORD, PA  
 US 18969-1191  
 Contact: EDWARD ROGENER  
 erogener@wm.com  
 T:  
 F:

### OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.5	12.8	13.6
Base Number (BN)	mg KOH/g	<b>6.3</b>	6.5	5.6	6.6
Oxidation (PA)	%	<b>55</b>	48	69	50

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>70</b>	63	64	61
Sulfation (PA)	%	<b>55</b>	50	58	45
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>13</b>	10	11	3
Sodium	ppm	<b>1</b>	2	<1	<1
Potassium	ppm	<b>1</b>	<1	0	0

### WEAR METALS

Iron	ppm	<b>19</b>	11	10	16
Copper	ppm	<b>&lt;1</b>	<1	0	2
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>1</b>	<1	<1	0
Aluminum	ppm	<b>7</b>	5	4	1
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>26</b>	31	72	59
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
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>1828</b>	2143	1451	1132
Magnesium	ppm	<b>333</b>	284	336	931
Zinc	ppm	<b>1126</b>	1233	1145	1249
Phosphorus	ppm	<b>932</b>	1027	933	1031
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>12</b>	32	256	11

### 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.

**Depot:** WASTEL  
**Unique No:** 10795631  
**Signed:** Don Baldrige  
**Report Date:** 21 Dec 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

