



# CONSTRUCTION EQUIPMENT

## A11599 VOLVO L120H 633047 - DIESEL ENGINE



**Sample No:** VCP434167  
**Oil Type:** MOBIL 15W40  
**Job No:** A11599



### SAMPLE INFORMATION

Sample Number	<b>VCP434167</b>	VCP430934	VCP356333	VCP414309
Sample Date	<b>07 Dec 2023</b>	01 Nov 2023	31 Aug 2023	14 Jul 2023
Machine Hours	<b>3690</b>	3400	3065	2855
Oil Hours	<b>250</b>	250	250	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### GOURMETS DELIGHT

PO BOX 160  
 AVONDALE, PA  
 US 19311  
 Contact: GABE VALENTINO  
 gabe.valentino@gourmetsfinest.com  
 T: (610)268-3578  
 F: (610)268-2298



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	12.9	13.3	13.2
Base Number (BN)	mg KOH/g	<b>7.2</b>	7.6	8.2	10.1
Oxidation (PA)	%	<b>39</b>	43	45	70



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.3	0.2	0.2
Nitration (PA)	%	<b>53</b>	54	49	49
Sulfation (PA)	%	<b>45</b>	47	45	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	3	3	4
Sodium	ppm	<b>&lt;1</b>	<1	2	2
Potassium	ppm	<b>2</b>	2	<1	0



### WEAR METALS

Iron	ppm	<b>5</b>	8	5	7
Copper	ppm	<b>&lt;1</b>	2	1	1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	6	8	9
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>10</b>	25	28	36
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>2005</b>	1788	1881	1879
Magnesium	ppm	<b>148</b>	306	377	468
Zinc	ppm	<b>1057</b>	1090	1106	1210
Phosphorus	ppm	<b>876</b>	924	925	1005
Barium	ppm	<b>0</b>	7	0	0
Boron	ppm	<b>8</b>	11	16	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 acceptable for the time in service.

**Depot:** GOUAVO  
**Unique No:** 10795634  
**Signed:** Don Baldrige  
**Report Date:** 21 Dec 2023



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## GRAPHS

