



# CONSTRUCTION EQUIPMENT

## VOLVO L120H 632185 - HYDRAULIC SYSTEM



**Sample No:** VCP401530

**Oil Type:** BP AW 46

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP401530</b>	VCP384038	VCP374954	VCP341659
Sample Date	<b>25 Aug 2023</b>	09 May 2023	08 Dec 2022	01 Aug 2022
Machine Hours	<b>8610</b>	8100	7600	7100
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



### LEONARDS CONTRACTING

30850 STEPHENSON HWY  
MADISON HEIGHTS, MI  
US 48071

Contact: LARRY SCHRADER  
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T: (810)499-1953  
F: x:



### OIL CONDITION

Visc @ 40°C	cSt	<b>39.4</b>	39.5	39.6	39.5
Acid Number (AN)	mg KOH/g	<b>0.63</b>	0.30	0.33	0.31



### CONTAMINATION

Particles >4µm		<b>3767</b>	6092	4616	2729
Particles >6µm		<b>919</b>	870	275	374
Particles >14µm		<b>30</b>	46	11	36
ISO 4406:1999 (c)		<b>19/17/12</b>	20/17/13	19/15/11	19/16/12
Silicon	ppm	<b>6</b>	12	5	6
Sodium	ppm	<b>2</b>	5	4	<1
Potassium	ppm	<b>2</b>	2	0	2



### WEAR METALS

Iron	ppm	<b>21</b>	38	17	18
Copper	ppm	<b>6</b>	6	6	6
Lead	ppm	<b>2</b>	2	2	2
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	4	2	3
Chromium	ppm	<b>4</b>	4	3	3
Molybdenum	ppm	<b>&lt;1</b>	1	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>62</b>	136	57	60
Magnesium	ppm	<b>3</b>	12	2	3
Zinc	ppm	<b>428</b>	424	389	405
Phosphorus	ppm	<b>318</b>	338	303	304
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	<1

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**Depot:** LEOMAD  
**Unique No:** 10632692  
**Signed:** Wes Davis  
**Report Date:** 06 Sep 2023

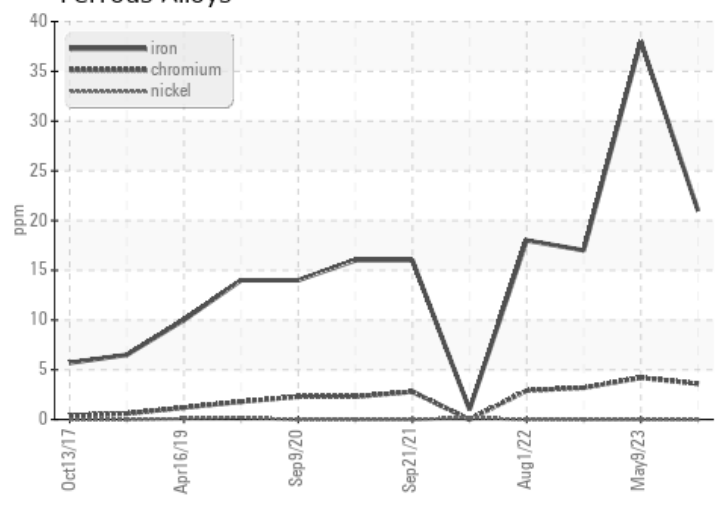


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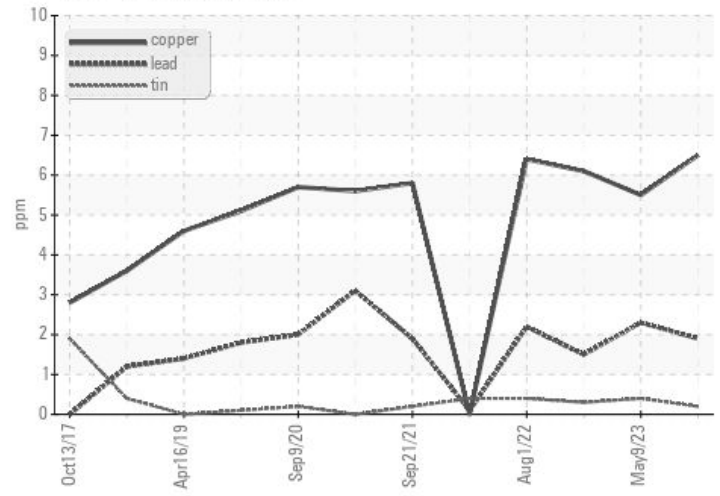


## GRAPHS

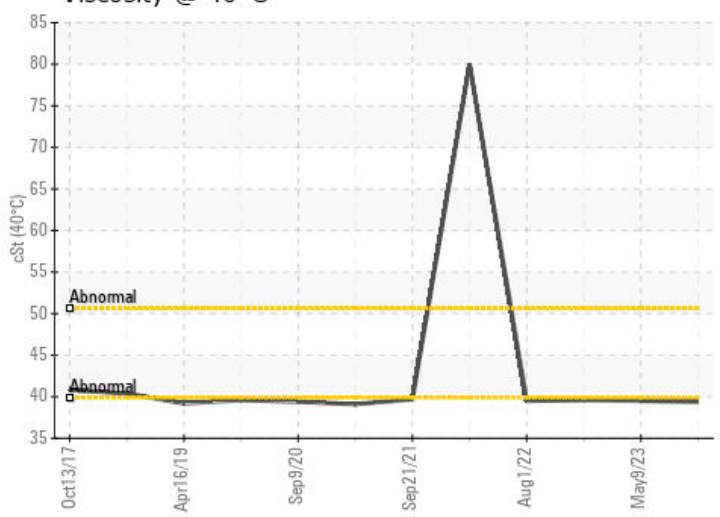
### Ferrous Alloys



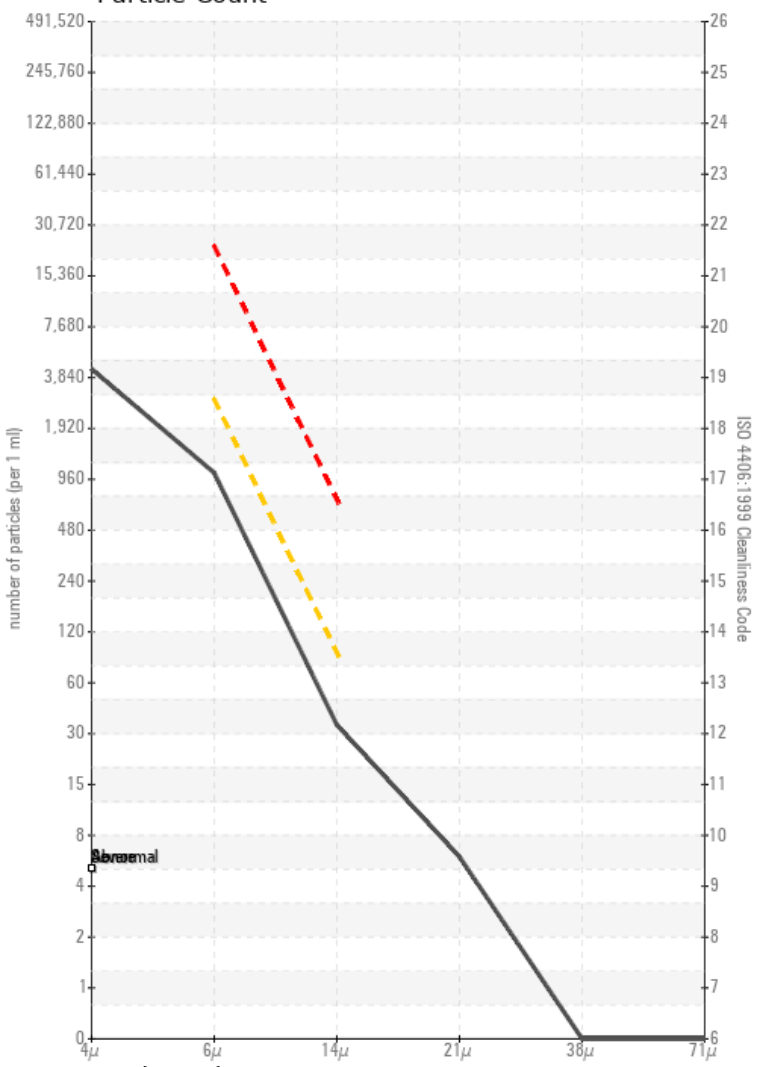
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

