



# CONSTRUCTION EQUIPMENT

## VOLVO L120H 633087 - HYDRAULIC SYSTEM



**Sample No:** VCP434907

**Oil Type:** BP AW 46

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP434907</b>	VCP383146	VCP393381	VCP384132
Sample Date	<b>14 Jun 2024</b>	16 Sep 2023	19 May 2023	12 Jan 2023
Machine Hours	<b>2940</b>	1985	1500	985
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	ABNORMAL	ATTENTION	NORMAL

### LEONARDS CONTRACTING

30850 STEPHENSON HWY  
MADISON HEIGHTS, MI  
US 48071

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T: (810)499-1953  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.5</b>	41.7	43.1	43.5
Acid Number (AN)	mg KOH/g	<b>0.38</b>	0.40	0.28	0.31



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>7296</b>	2095	6707	1781
Particles >6µm		<b>2232</b>	494	1285	203
Particles >14µm		<b>87</b>	34	86	18
ISO 4406:1999 (c)		<b>20/18/14</b>	18/16/12	20/17/14	18/15/11
Silicon	ppm	<b>4</b>	1	3	2
Sodium	ppm	<b>0</b>	<1	2	1
Potassium	ppm	<b>2</b>	0	1	0

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>7</b>	4	5	4
Copper	ppm	<b>2</b>	35	<1	1
Lead	ppm	<b>&lt;1</b>	0	2	<1
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>2</b>	0	1	<1
Chromium	ppm	<b>&lt;1</b>	3	<1	<1
Molybdenum	ppm	<b>0</b>	0	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>52</b>	35	65	60
Magnesium	ppm	<b>4</b>	0	13	2
Zinc	ppm	<b>437</b>	361	470	438
Phosphorus	ppm	<b>325</b>	376	377	328
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** LEOMAD  
**Unique No:** 11087442  
**Signed:** Wes Davis  
**Report Date:** 20 Jun 2024

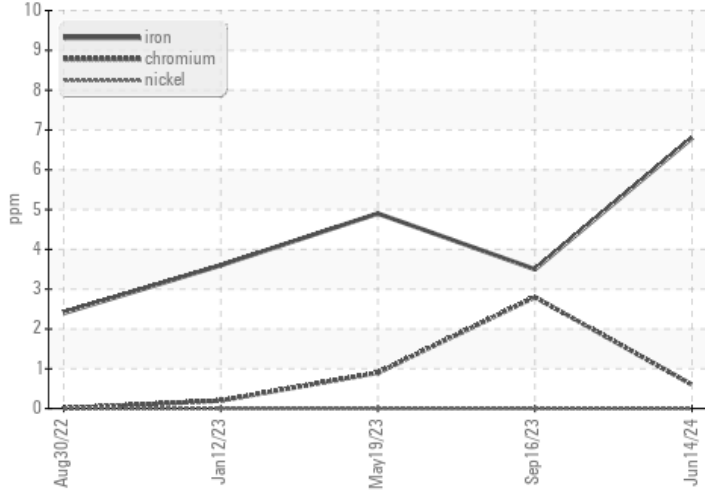


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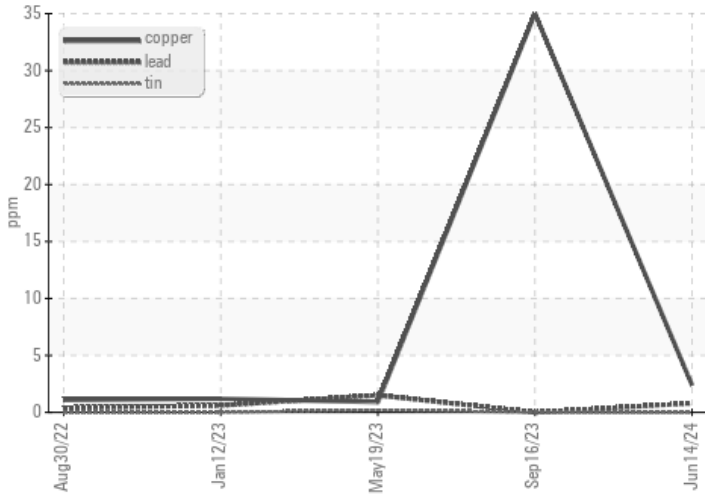


## VOLVO GRAPHS

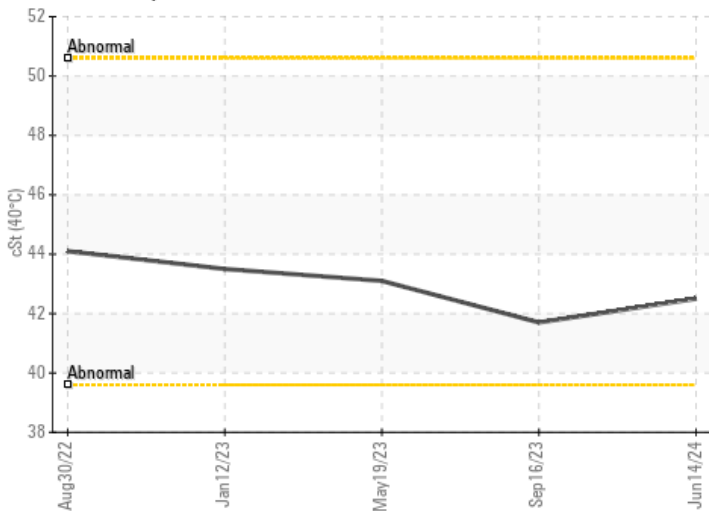
### Ferrous Alloys



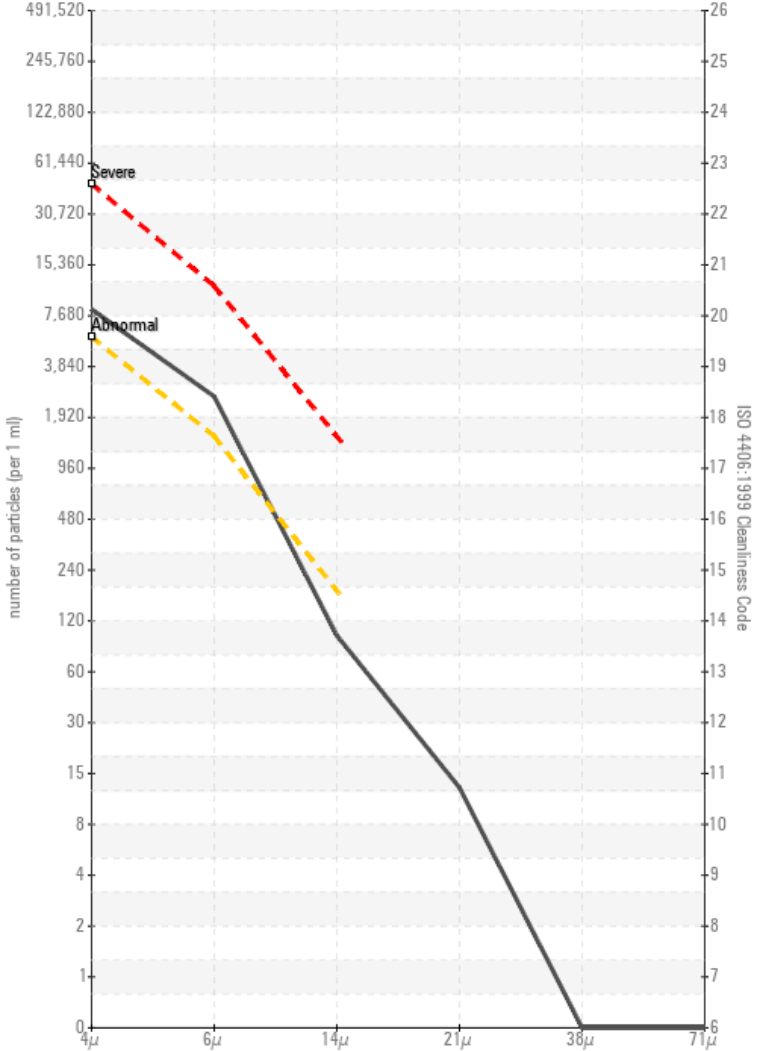
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

