



# CONSTRUCTION EQUIPMENT

## VOLVO L120H 632190 - HYDRAULIC SYSTEM



**Sample No:** VCP382924

**Oil Type:** BP AW 46

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP382924</b>	VCP385021	VCP343945	VCP341655
Sample Date	<b>13 Jun 2023</b>	05 Jan 2023	16 Sep 2022	07 Jun 2022
Machine Hours	<b>8035</b>	7550	7055	6530
Oil Hours	<b>0</b>	0	0	1000
Oil Changed	<b>Not Changd</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	ABNORMAL



### LEONARDS CONTRACTING

30850 STEPHENSON HWY  
MADISON HEIGHTS, MI  
US 48071

Contact: LARRY SCHRADE  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>39.5</b>	40.3	40.1	40.2
Acid Number (AN)	mg KOH/g	<b>0.39</b>	0.36	0.33	0.20



### CONTAMINATION

Particles >4µm		<b>5489</b>	1456	1352	9888
Particles >6µm		<b>1850</b>	124	448	2569
Particles >14µm		<b>132</b>	10	57	283
ISO 4406:1999 (c)		<b>20/18/14</b>	18/14/10	18/16/13	20/19/15
Silicon	ppm	<b>7</b>	7	6	6
Sodium	ppm	<b>6</b>	6	4	5
Potassium	ppm	<b>0</b>	0	0	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>33</b>	30	23	22
Copper	ppm	<b>9</b>	9	8	8
Lead	ppm	<b>&lt;1</b>	1	2	1
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	2	<1	1
Chromium	ppm	<b>1</b>	1	1	1
Molybdenum	ppm	<b>0</b>	0	<1	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>45</b>	50	49	49
Magnesium	ppm	<b>0</b>	0	0	0
Zinc	ppm	<b>391</b>	373	395	377
Phosphorus	ppm	<b>313</b>	306	312	297
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	<1	0

**Depot:** LEOMAD  
**Unique No:** 10532430  
**Signed:** Wes Davis  
**Report Date:** 27 Jun 2023

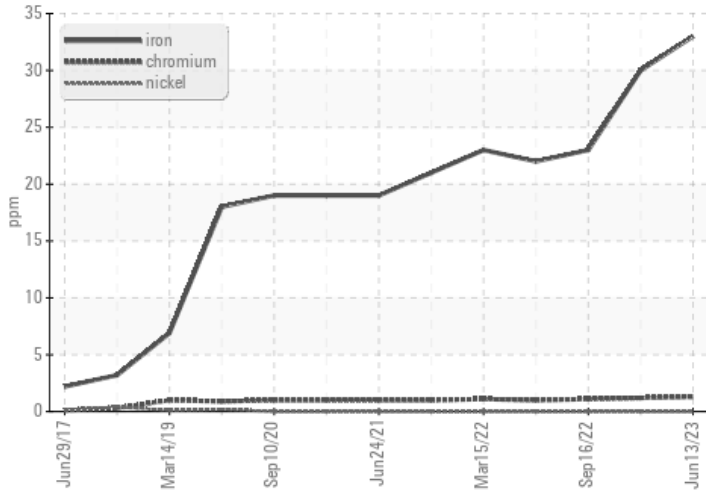


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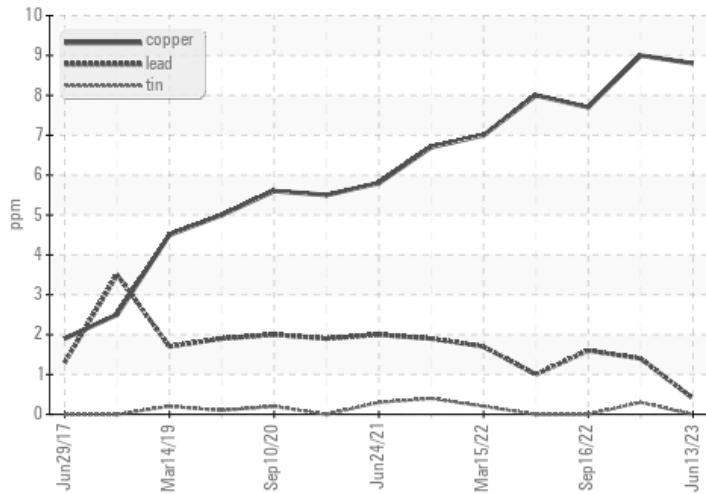


## GRAPHS

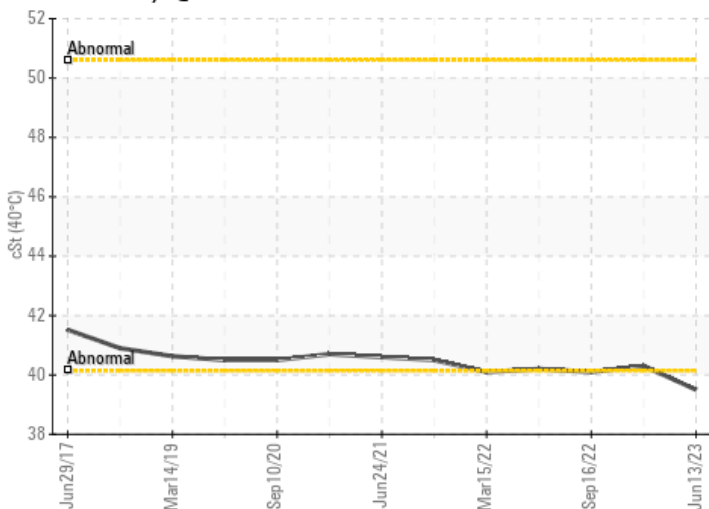
### Ferrous Alloys



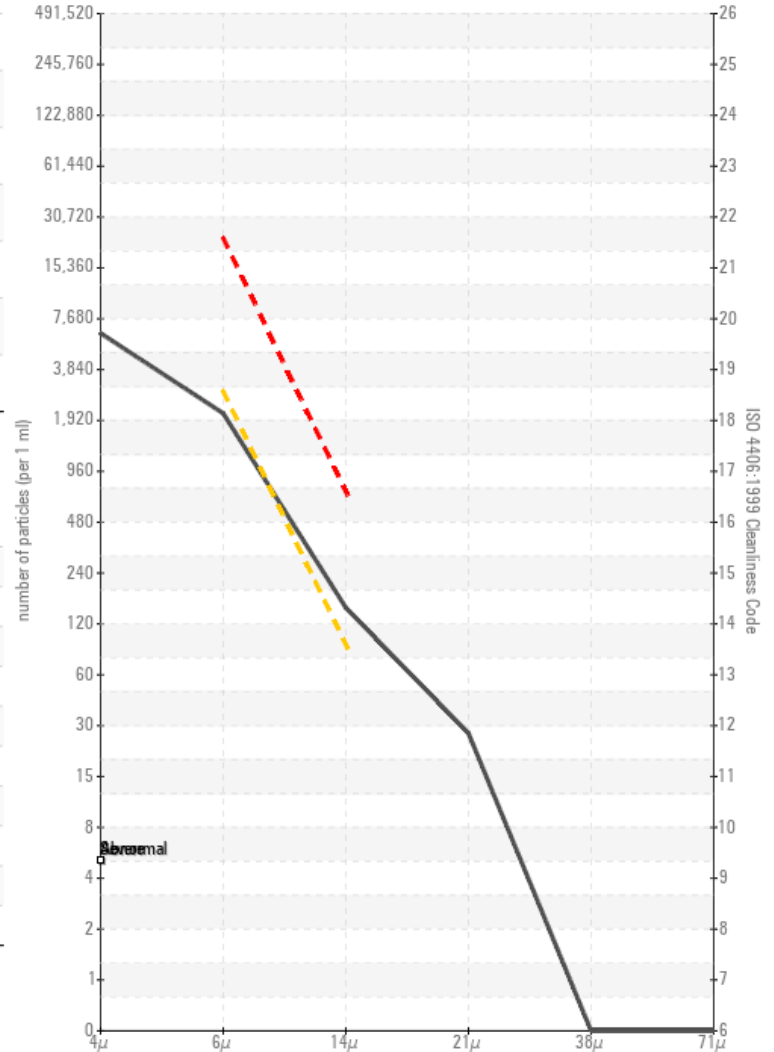
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

