



# CONSTRUCTION EQUIPMENT

REGION OF PEEL 8-371250 VOLVO L110H 631487 - HYDRAULIC SYSTEM



**Sample No:** VCP391582  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 8-371250



## SAMPLE INFORMATION

Sample Number	<b>VCP391582</b>	VCP281309	VCP273275	VCP249732
Sample Date	<b>21 Jul 2023</b>	22 Oct 2021	24 Jul 2020	27 Sep 2019
Machine Hours	<b>6030</b>	4015	2505	1512
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	NORMAL

### STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD  
 MISSISSAUGA, ON  
 CA L4W 4L4

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## OIL CONDITION

Visc @ 40°C	cSt	<b>42.9</b>	41.9	41.7	42.1
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## CONTAMINATION

Particles >4µm		<b>6403</b>	5914	9278	9353
Particles >6µm		<b>1146</b>	310	470	297
Particles >14µm		<b>101</b>	27	37	33
ISO 4406:1999 (c)		<b>20/17/14</b>	20/15/12	20/16/12	20/15/12
Silicon	ppm	<b>2</b>	2	2	1
Sodium	ppm	<b>4</b>	3	<1	0
Potassium	ppm	<b>1</b>	1	1	<1

### Diagnosis

The filter change at the time of sampling has been noted. 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 condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>7</b>	10	8	5
Copper	ppm	<b>2</b>	3	3	2
Lead	ppm	<b>&lt;1</b>	2	1	1
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>3</b>	4	2	1
Molybdenum	ppm	<b>1</b>	2	1	<1
Nickel	ppm	<b>&lt;1</b>	<1	0	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>0</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>109</b>	123	108	91
Magnesium	ppm	<b>18</b>	26	21	13
Zinc	ppm	<b>459</b>	454	445	451
Phosphorus	ppm	<b>391</b>	375	363	345
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>3</b>	3	2	2

**Depot:** SHEMIS  
**Unique No:** 5617746  
**Signed:** Wes Davis  
**Report Date:** 28 Jul 2023

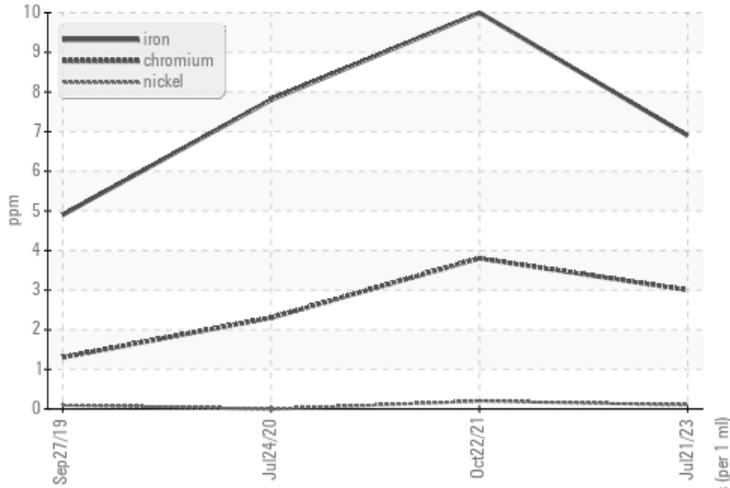


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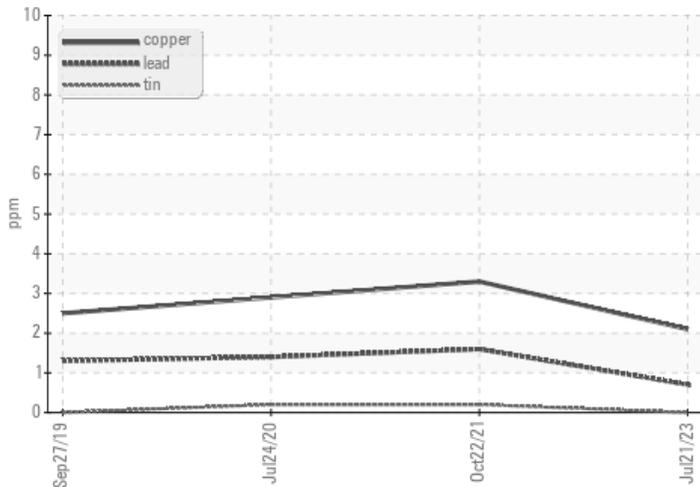


## GRAPHS

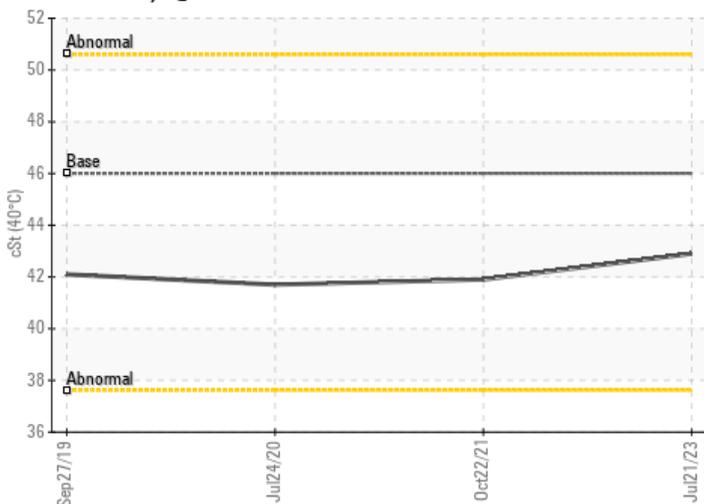
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count

