



# CONSTRUCTION EQUIPMENT

## SWA351046-10 VOLVO L220H 2752 - HYDRAULIC SYSTEM



**Sample No:** VCP412854  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWA351046-10



### SAMPLE INFORMATION

Sample Number	<b>VCP412854</b>	VCP396052	VCP376108	VCP348148
Sample Date	<b>07 Sep 2023</b>	23 May 2023	17 Oct 2022	09 Aug 2022
Machine Hours	<b>15591</b>	14548	12267	11472
Oil Hours	<b>0</b>	0	0	500
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

**WHEELABRATOR**  
 1 CHARLES POINT AVE  
 PEEKSKILL, NY  
 US 10566  
 Contact: Service Manager

### OIL CONDITION

Visc @ 40°C	cSt	<b>40.7</b>	40.6	40.5	40.8
Acid Number (AN)	mg KOH/g	<b>0.45</b>	0.42	0.49	0.54

T:  
F:

### CONTAMINATION

Particles >4µm	<b>4922</b>	10325	33176	33960
Particles >6µm	<b>1062</b>	862	4302	2584
Particles >14µm	<b>80</b>	30	326	51
ISO 4406:1999 (c)	<b>19/17/13</b>	21/17/12	22/19/16	22/19/13
Silicon	ppm	<b>2</b>	2	2
Sodium	ppm	<b>2</b>	2	0
Potassium	ppm	<b>0</b>	0	2

### 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.

### WEAR METALS

Iron	ppm	<b>6</b>	5	4	4
Copper	ppm	<b>&lt;1</b>	2	2	1
Lead	ppm	<b>0</b>	0	1	<1
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>0</b>	<1	0	1
Chromium	ppm	<b>2</b>	2	1	1
Molybdenum	ppm	<b>0</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>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>805</b>	818	856	770
Magnesium	ppm	<b>11</b>	10	8	7
Zinc	ppm	<b>593</b>	590	619	571
Phosphorus	ppm	<b>394</b>	461	480	476
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>25</b>	26	23	27

**Depot:** WHEPEE  
**Unique No:** 10655151  
**Signed:** Wes Davis  
**Report Date:** 20 Sep 2023

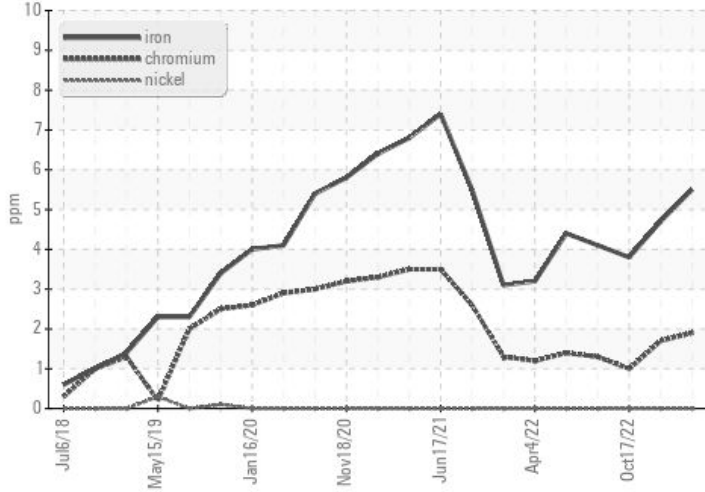


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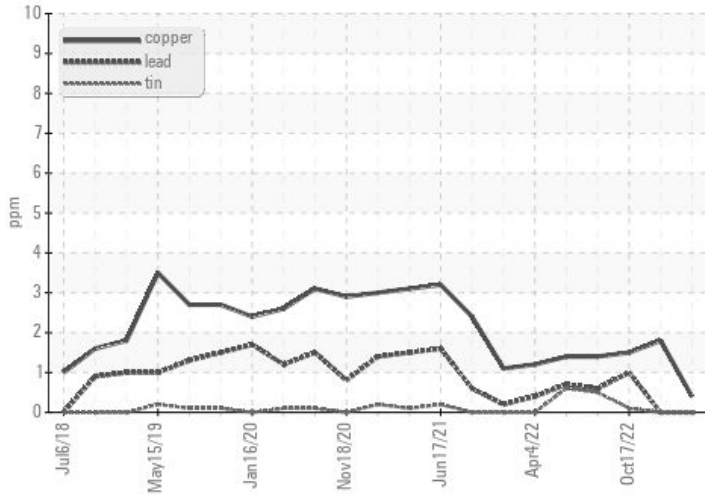


## GRAPHS

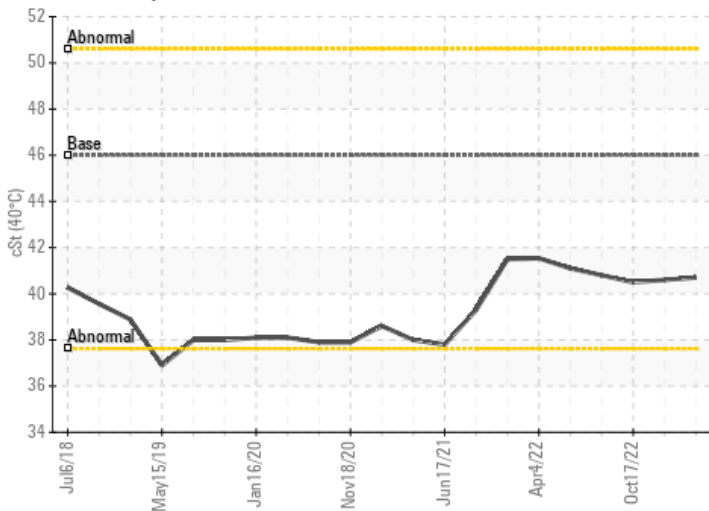
### Ferrous Alloys



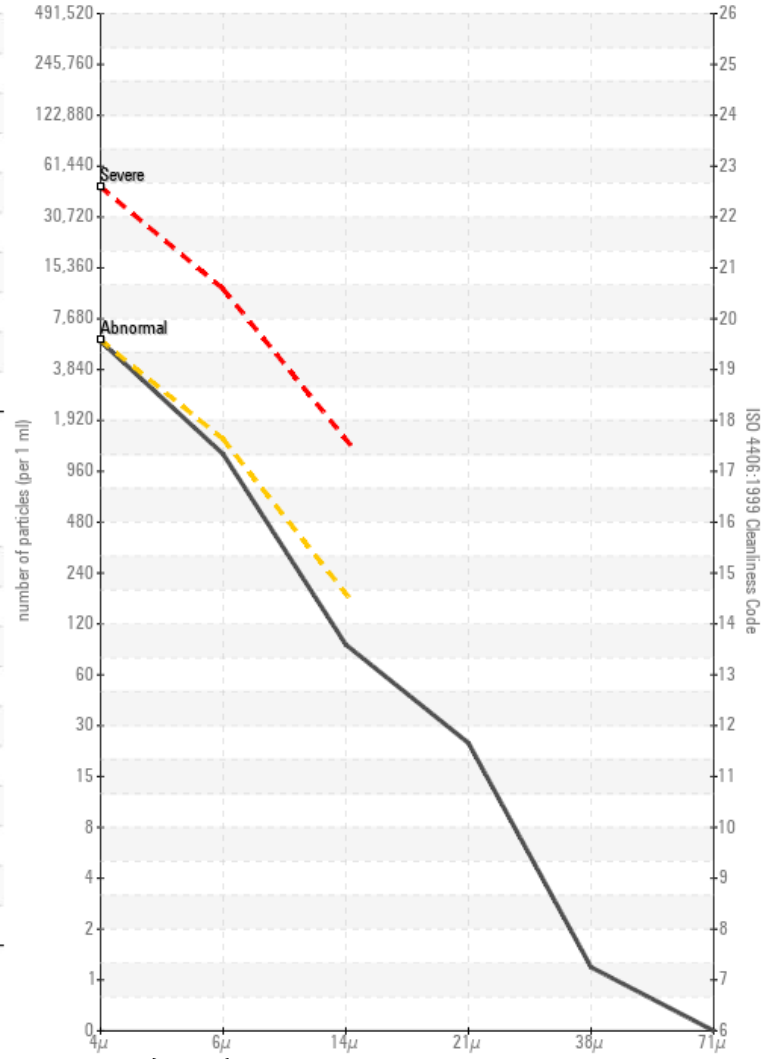
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

