



# CONSTRUCTION EQUIPMENT

## SWA350493 VOLVO L70H 622505 - HYDRAULIC SYSTEM



**Sample No:** VCP427425  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWA350493



### SAMPLE INFORMATION

Sample Number	<b>VCP427425</b>	VCP400815	VCP332131	VCP350918
Sample Date	<b>01 Sep 2023</b>	18 May 2023	12 Sep 2022	24 Jan 2022
Machine Hours	<b>11602</b>	11032	9569	8355
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	N/A	Not Changd	Not Changd
Sample Status	<b>SEVERE</b>	ABNORMAL	ABNORMAL	ABNORMAL

### ALTA EQUIPMENT

5985 COURT STREET ROAD  
 SYRACUSE, NY  
 US 13206  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>38.7</b>	38.7	39.7	39.8
Acid Number (AN)	mg KOH/g	<b>0.26</b>	0.29	0.32	0.28



### CONTAMINATION

Particles >4µm	<b>124484</b>	30500	35546	12130	
Particles >6µm	<b>47913</b>	4624	6740	2886	
Particles >14µm	<b>2312</b>	147	155	180	
ISO 4406:1999 (c)	<b>24/23/18</b>	22/19/14	22/20/14	21/19/15	
Silicon	ppm	<b>13</b>	13	13	14
Sodium	ppm	<b>2</b>	3	0	2
Potassium	ppm	<b>&lt;1</b>	2	2	1

### Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



### WEAR METALS

Iron	ppm	<b>8</b>	7	7	8
Copper	ppm	<b>6</b>	7	8	8
Lead	ppm	<b>&lt;1</b>	<1	2	2
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>2</b>	0	4	3
Chromium	ppm	<b>3</b>	3	3	3
Molybdenum	ppm	<b>0</b>	0	0	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>65</b>	62	56	63
Magnesium	ppm	<b>5</b>	6	1	1
Zinc	ppm	<b>403</b>	417	430	439
Phosphorus	ppm	<b>330</b>	342	333	347
Barium	ppm	<b>7</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	8

**Depot:** VOLV00142  
**Unique No:** 10635130  
**Signed:** Wes Davis  
**Report Date:** 08 Sep 2023

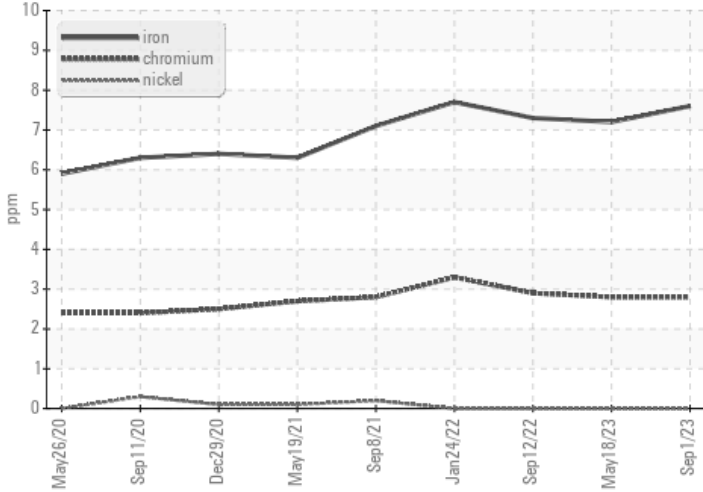


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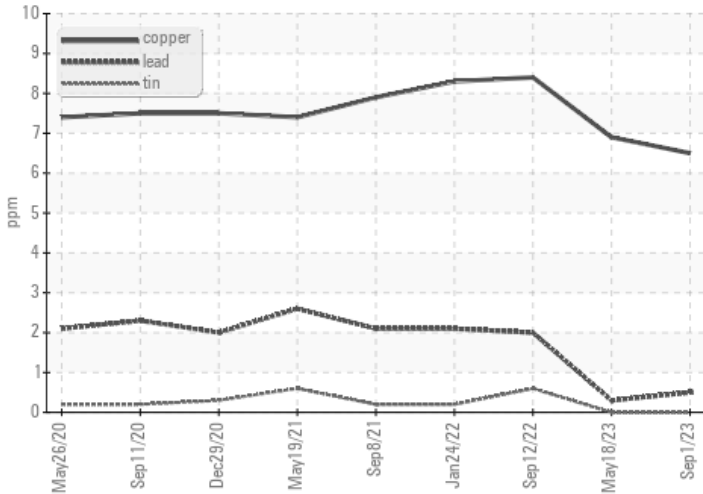


## GRAPHS

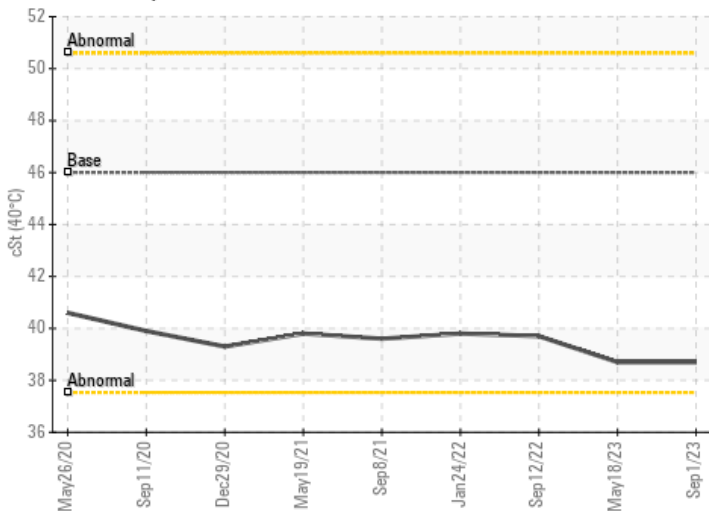
### Ferrous Alloys



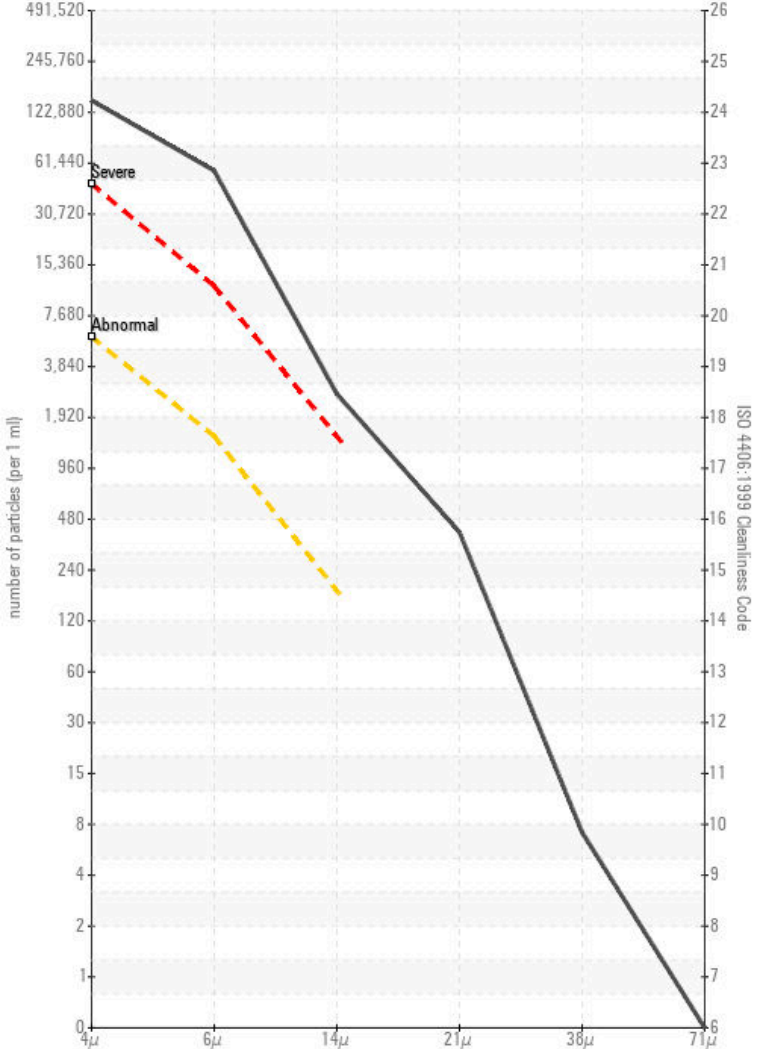
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

