



# CONSTRUCTION EQUIPMENT

## VOLVO L70H 623279 - HYDRAULIC SYSTEM



**Sample No:** VCP418459  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP418459</b>	VCP426895	VCP420313	VCP395202
Sample Date	<b>10 Oct 2023</b>	14 Jul 2023	28 Apr 2023	13 Jan 2023
Machine Hours	<b>6228</b>	5640	1698	4454
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>SEVERE</b>	NORMAL	NORMAL	ABNORMAL

**113 - ASCENDUM MACHINERY INC - GARNER**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.7</b>	42.6	42.6	42.2
Acid Number (AN)	mg KOH/g	<b>0.32</b>	0.28	0.30	0.29



### CONTAMINATION

Particles >4µm		<b>54607</b>	1154	3218	8434
Particles >6µm		<b>21991</b>	257	745	2584
Particles >14µm		<b>2490</b>	13	25	189
ISO 4406:1999 (c)		<b>23/22/18</b>	17/15/11	19/17/12	20/19/15
Silicon	ppm	<b>2</b>	1	<1	1
Sodium	ppm	<b>4</b>	2	2	2
Potassium	ppm	<b>0</b>	<1	0	0

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



### ADDITIVES

Calcium	ppm	<b>23</b>	30	0	28
Magnesium	ppm	<b>0</b>	4	0	3
Zinc	ppm	<b>286</b>	303	270	292
Phosphorus	ppm	<b>217</b>	234	212	241
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** VOLV00157  
**Unique No:** 10698476  
**Signed:** Wes Davis  
**Report Date:** 18 Oct 2023

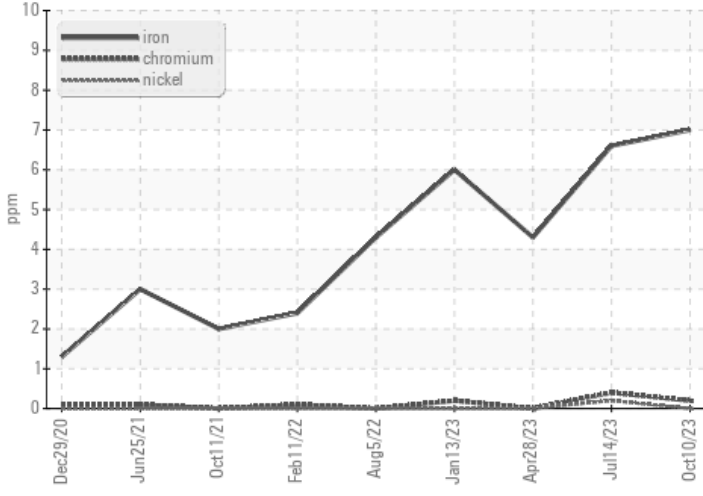


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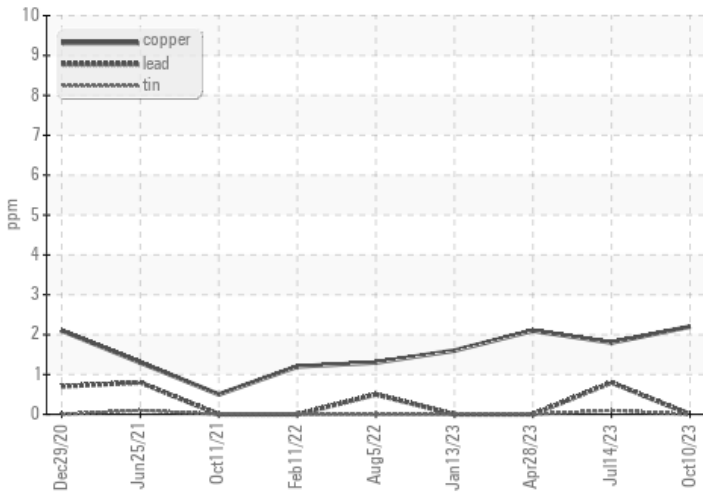


## GRAPHS

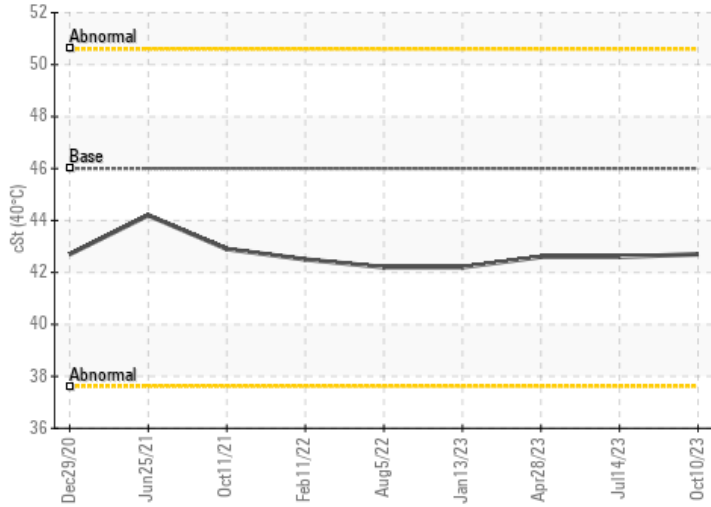
Ferrous Alloys



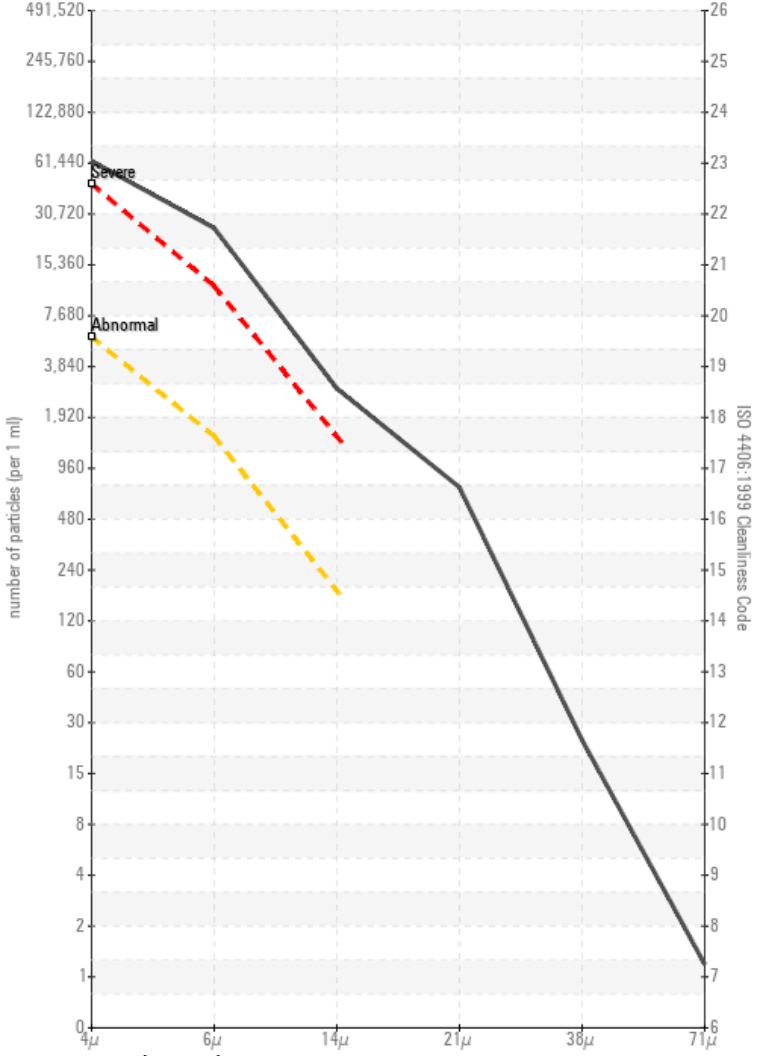
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

