



# CONSTRUCTION EQUIPMENT

## SWA286531-10 VOLVO L90H 623596 - HYDRAULIC SYSTEM



**Sample No:** VCP407435  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWA286531-10



### SAMPLE INFORMATION

Sample Number	<b>VCP407435</b>	VCP376370	VCP316700	VCP316702
Sample Date	<b>28 Jun 2023</b>	22 Aug 2022	16 Dec 2021	28 Jul 2021
Machine Hours	<b>11338</b>	10360	9295	8765
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	NORMAL	ATTENTION	NORMAL

IAA - INSURANCE AUTO AUCTIONS - ROCK TAVERN  
 39 STONE CASTLE RD  
 ROCK TAVERN, NY  
 US 12575  
 Contact: SERVICE MANAGER

### OIL CONDITION

Visc @ 40°C	cSt	<b>41.8</b>	41.8	42.4	42.3
Acid Number (AN)	mg KOH/g	<b>0.26</b>	0.30	0.27	0.293

T:  
F:

### CONTAMINATION

Particles >4µm		<b>16742</b>	5418	4048	1861
Particles >6µm		<b>4494</b>	1049	1145	461
Particles >14µm		<b>325</b>	29	95	47
ISO 4406:1999 (c)		<b>21/19/16</b>	20/17/12	19/17/14	18/16/13
Silicon	ppm	<b>9</b>	8	8	7
Sodium	ppm	<b>2</b>	0	2	2
Potassium	ppm	<b>2</b>	0	<1	<1

### Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate 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	7
Copper	ppm	<b>6</b>	6	5	5
Lead	ppm	<b>&lt;1</b>	<1	2	2
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>4</b>	4	3	3
Chromium	ppm	<b>2</b>	2	2	1
Molybdenum	ppm	<b>4</b>	4	4	4
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>192</b>	145	170	159
Magnesium	ppm	<b>28</b>	24	31	28
Zinc	ppm	<b>507</b>	460	439	460
Phosphorus	ppm	<b>395</b>	372	362	348
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>8</b>	11	10	17

**Depot:** INSROC  
**Unique No:** 10561194  
**Signed:** Wes Davis  
**Report Date:** 18 Jul 2023

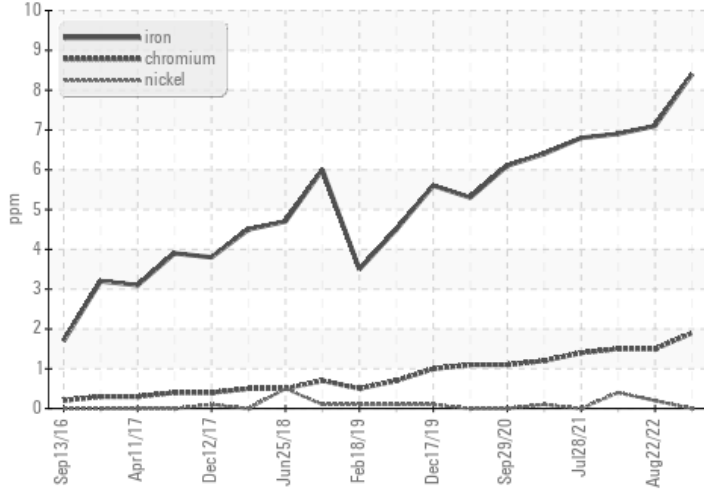


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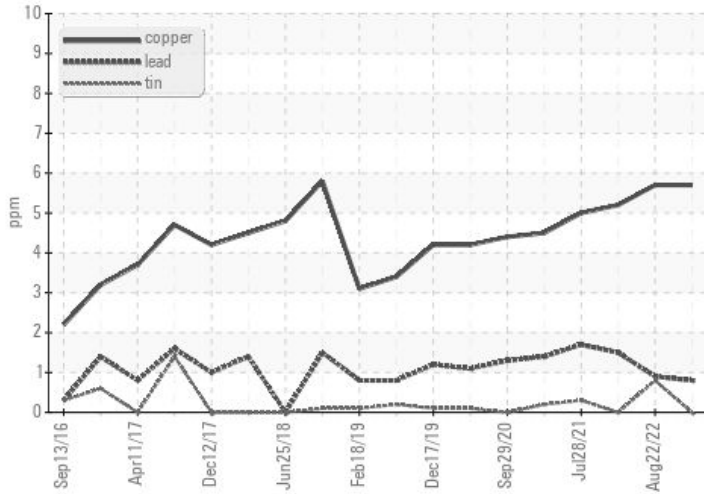


## VOLVO GRAPHS

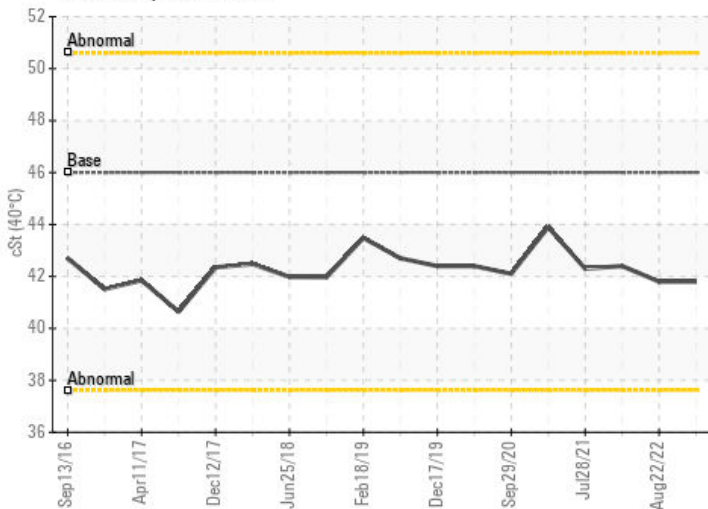
Ferrous Alloys



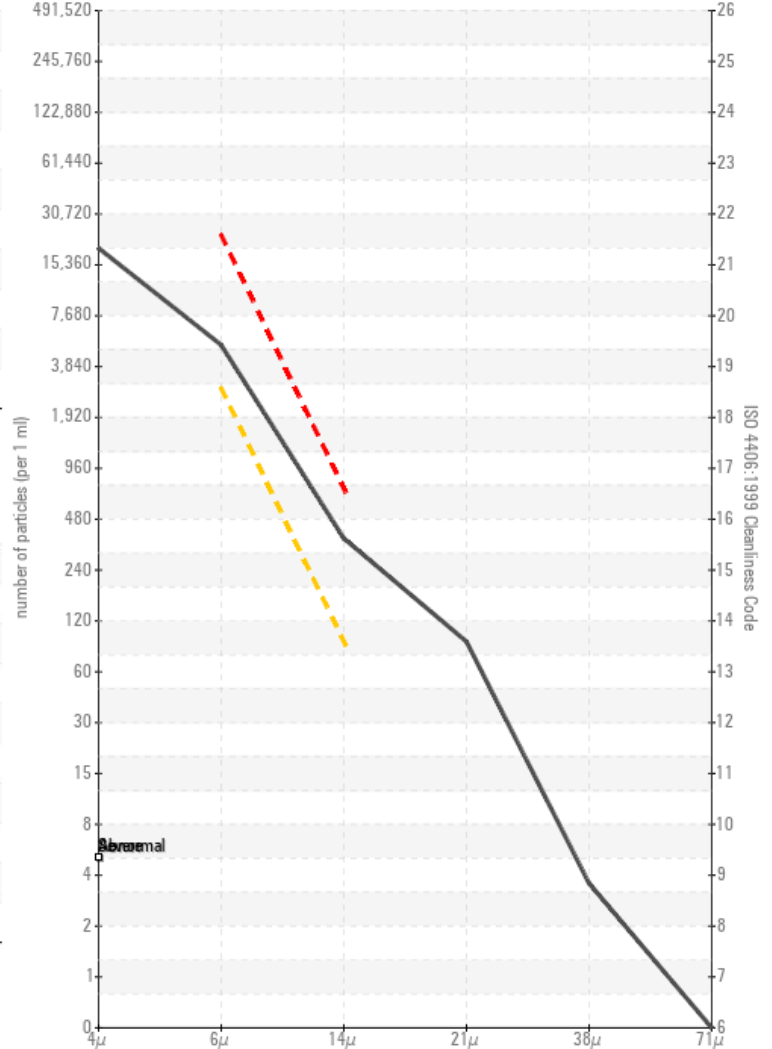
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

