



# CONSTRUCTION EQUIPMENT

## IMPACT AUTO 394833 VOLVO L90H 623902 - HYDRAULIC SYSTEM



**Sample No:** VCP392405  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 394833



### SAMPLE INFORMATION

Sample Number	<b>VCP392405</b>	VCP430000	VCP260722	VCP222902
Sample Date	<b>15 Feb 2024</b>	04 Dec 2023	18 Feb 2020	16 Oct 2018
Machine Hours	<b>10000</b>	9563	4300	2185
Oil Hours	<b>0</b>	0	0	2000
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	N/A
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	ABNORMAL

### STRONGCO EQUIPMENT-EDMONTON

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 Acheson, AB  
 CA T7X 6C2

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.7</b>	43.8	41.7	41.0
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>14493</b>	2193	7118	6261
Particles >6µm		<b>3909</b>	612	530	1802
Particles >14µm		<b>183</b>	29	34	100
ISO 4406:1999 (c)		<b>21/19/15</b>	18/16/12	20/16/12	20/18/14
Silicon	ppm	<b>3</b>	2	3	2
Sodium	ppm	<b>1</b>	1	0	<1
Potassium	ppm	<b>1</b>	0	<1	<1

### Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



### WEAR METALS

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



### ADDITIVES

Calcium	ppm	<b>60</b>	49	52	50
Magnesium	ppm	<b>&lt;1</b>	0	<1	<1
Zinc	ppm	<b>413</b>	416	440	430
Phosphorus	ppm	<b>334</b>	317	342	321
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>0</b>	<1	<1	0

**Depot:** VOLVO3908  
**Unique No:** 5733813  
**Signed:** Wes Davis  
**Report Date:** 21 Feb 2024

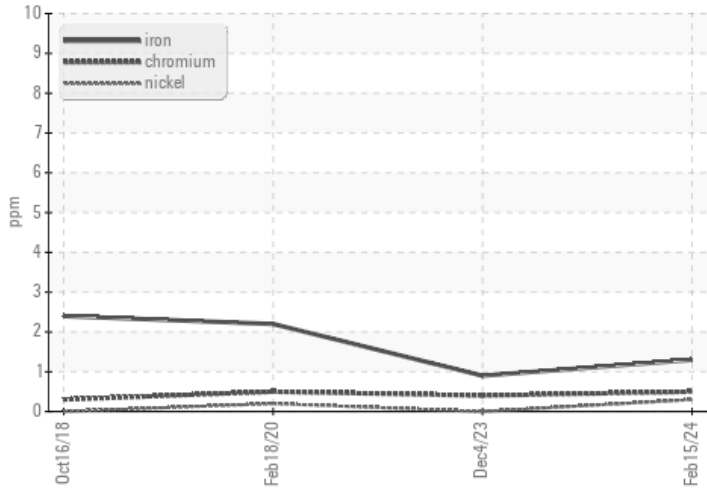


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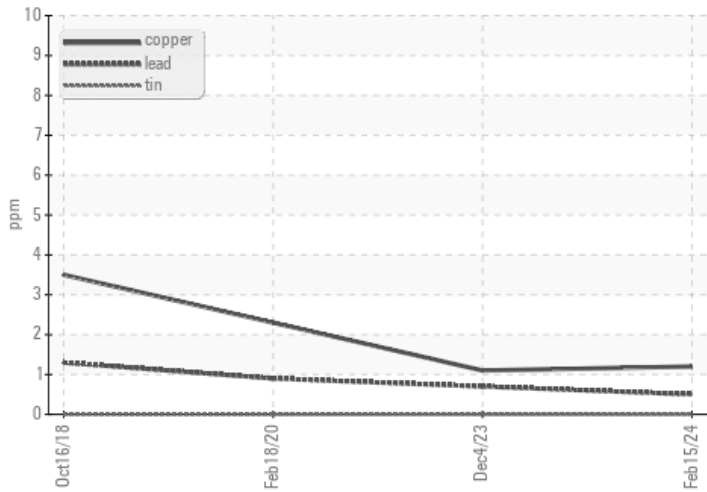


## VOLVO GRAPHS

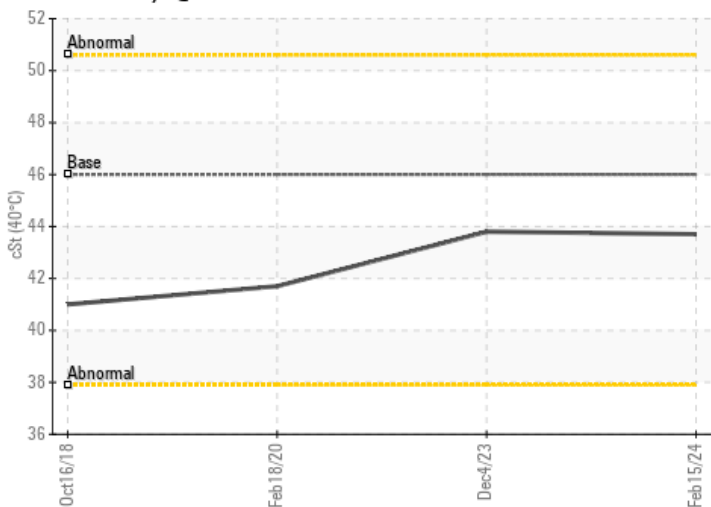
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count

