



# CONSTRUCTION EQUIPMENT

## SPM554815 VOLVO L90H 624199 - HYDRAULIC SYSTEM



**Sample No:** VCP422183  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM554815



### SAMPLE INFORMATION

Sample Number	<b>VCP422183</b>	VCP396406	VCP365861	VCP371741
Sample Date	<b>06 Jun 2023</b>	28 Feb 2023	01 Nov 2022	25 Jul 2022
Machine Hours	<b>9032</b>	8356	7635	7115
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	NORMAL

### UNITED SCRAP

1545 S CICERO AVE  
 CICERO, IL  
 US 60804  
 Contact: RON LUCHTENBURG  
 rluchten@unitedscrap.com  
 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>43.5</b>	43.1	43.5	43.5
Acid Number (AN)	mg KOH/g	<b>0.50</b>	0.44	0.47	0.65



### CONTAMINATION

Particles >4µm		<b>12235</b>	1390	11192	508
Particles >6µm		<b>2111</b>	233	1821	73
Particles >14µm		<b>65</b>	18	42	12
ISO 4406:1999 (c)		<b>21/18/13</b>	18/15/11	21/18/13	16/13/11
Silicon	ppm	<b>2</b>	2	1	1
Sodium	ppm	<b>0</b>	1	3	2
Potassium	ppm	<b>&lt;1</b>	0	0	0

### Diagnosis

We recommend you service the filters on this component. 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 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>5</b>	4	3	4
Copper	ppm	<b>3</b>	2	2	2
Lead	ppm	<b>1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	0	<1	1
Aluminum	ppm	<b>0</b>	<1	<1	2
Chromium	ppm	<b>4</b>	4	3	3
Molybdenum	ppm	<b>3</b>	<1	1	<1
Nickel	ppm	<b>0</b>	0	0	1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>130</b>	121	130	140
Magnesium	ppm	<b>53</b>	53	56	66
Zinc	ppm	<b>955</b>	883	917	981
Phosphorus	ppm	<b>729</b>	669	729	754
Barium	ppm	<b>1</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	2

**Depot:** UNICICIL  
**Unique No:** 10574228  
**Signed:** Wes Davis  
**Report Date:** 27 Jul 2023

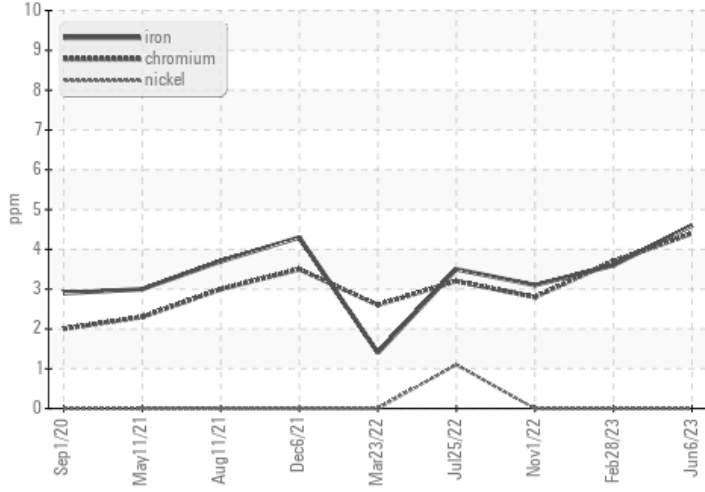


# CONSTRUCTION EQUIPMENT

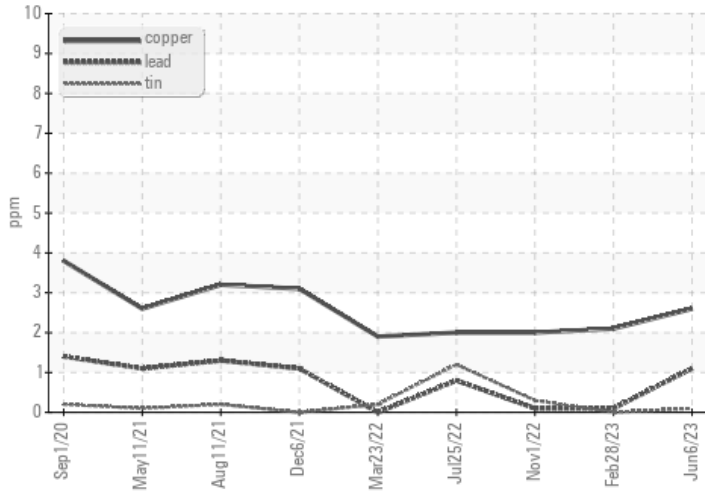


## GRAPHS

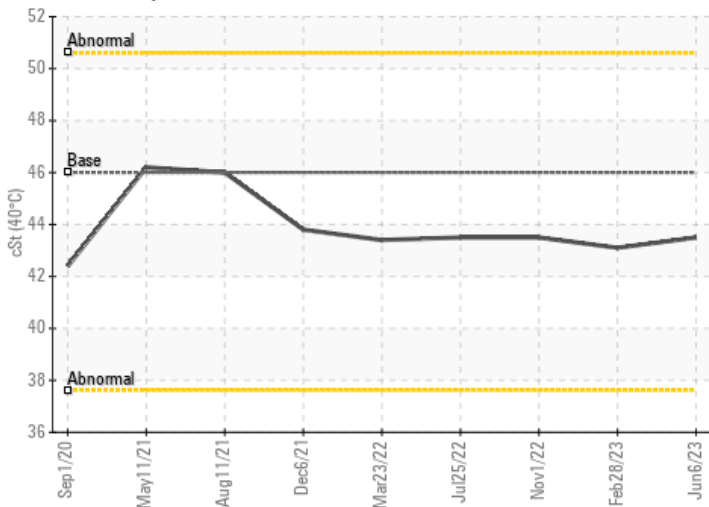
### Ferrous Alloys



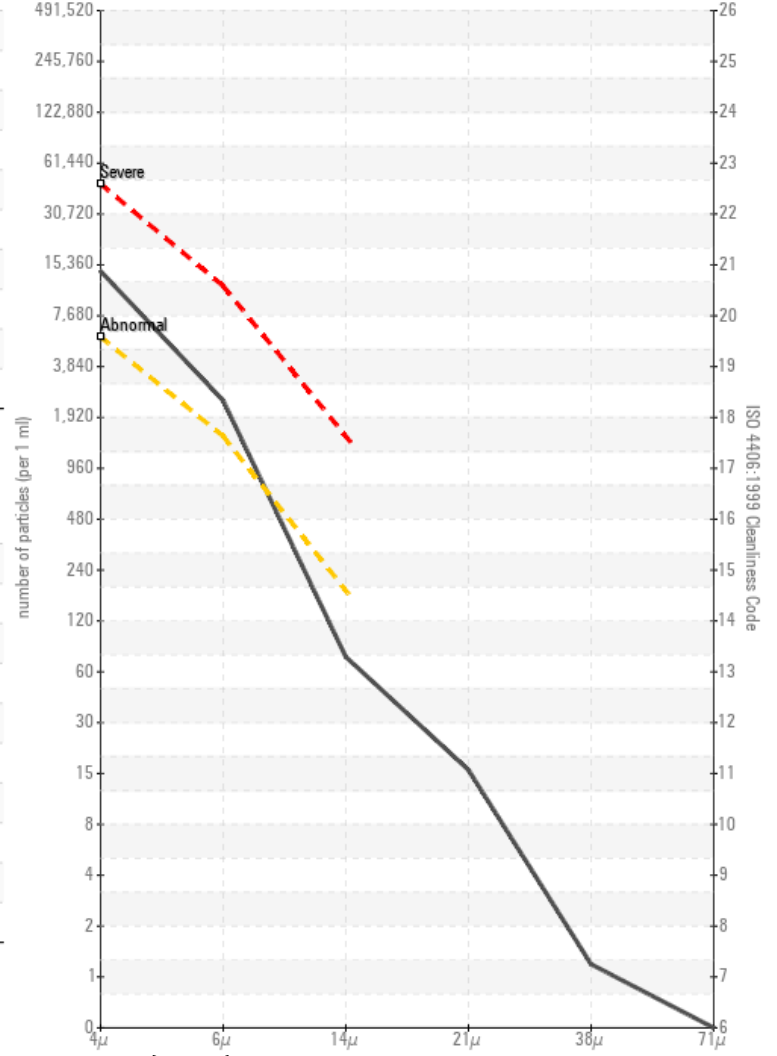
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

