



# CONSTRUCTION EQUIPMENT

## SPM595107 VOLVO L90H 625 106 - HYDRAULIC SYSTEM



**Sample No:** VCP354498  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM595107



### SAMPLE INFORMATION

Sample Number	<b>VCP354498</b>	VCP410967	VCP379237	VCP391106
Sample Date	<b>22 Aug 2023</b>	18 Apr 2023	11 Jan 2023	27 Sep 2022
Machine Hours	<b>4106</b>	4020	3460	2921
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	NORMAL	ATTENTION	ABNORMAL

### UNITED SCRAP

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



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.6</b>	42.6	42.6	42.8
Acid Number (AN)	mg KOH/g	<b>0.37</b>	0.32	0.38	0.42



### CONTAMINATION

Particles >4µm		<b>▲ 8064</b>	2840	▲ 7477	▲ 14709
Particles >6µm		<b>▲ 1488</b>	421	869	1206
Particles >14µm		<b>53</b>	24	25	21
ISO 4406:1999 (c)		<b>20/18/13</b>	19/16/12	20/17/12	21/17/12
Silicon	ppm	<b>2</b>	1	1	2
Sodium	ppm	<b>0</b>	<1	<1	1
Potassium	ppm	<b>&lt;1</b>	0	0	0

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>9</b>	4	4	4
Copper	ppm	<b>2</b>	<1	1	1
Lead	ppm	<b>2</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>0</b>	<1	0	<1
Chromium	ppm	<b>2</b>	<1	1	<1
Molybdenum	ppm	<b>&lt;1</b>	0	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>57</b>	40	41	50
Magnesium	ppm	<b>3</b>	0	<1	<1
Zinc	ppm	<b>672</b>	517	482	519
Phosphorus	ppm	<b>526</b>	423	396	416
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** UNICICIL  
**Unique No:** 10632701  
**Signed:** Wes Davis  
**Report Date:** 06 Sep 2023

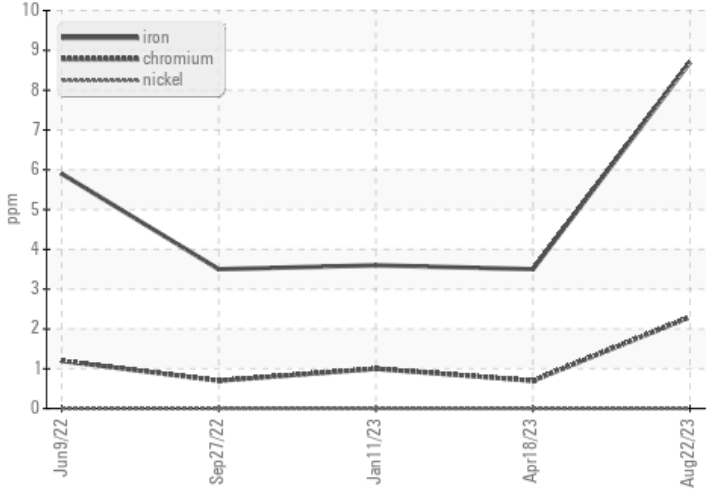


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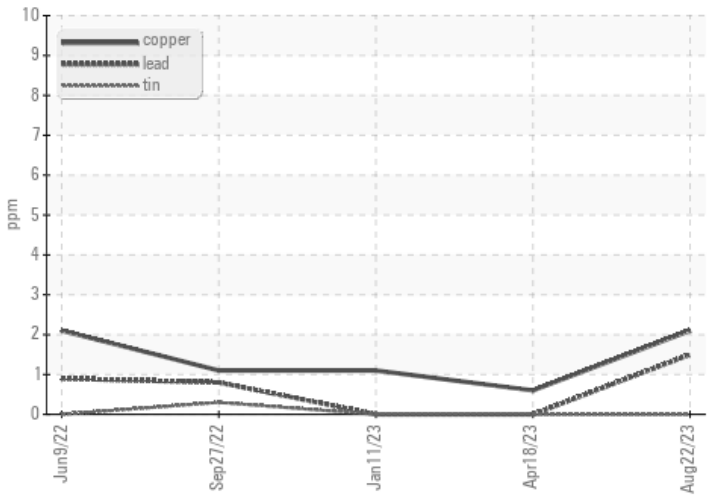


## GRAPHS

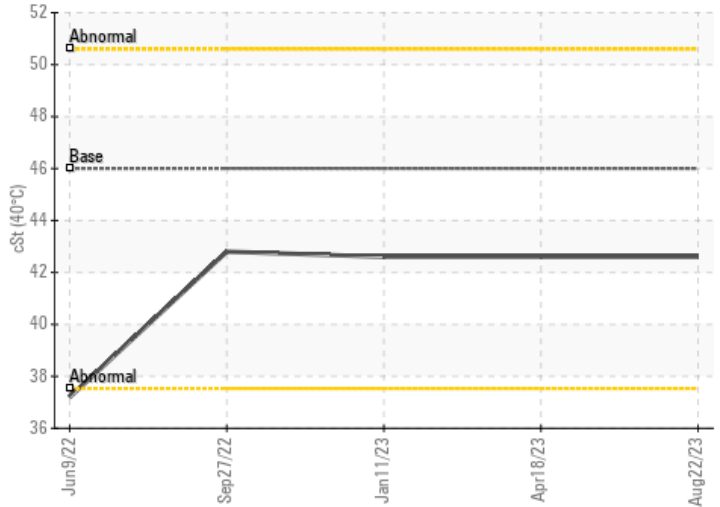
Ferrous Alloys



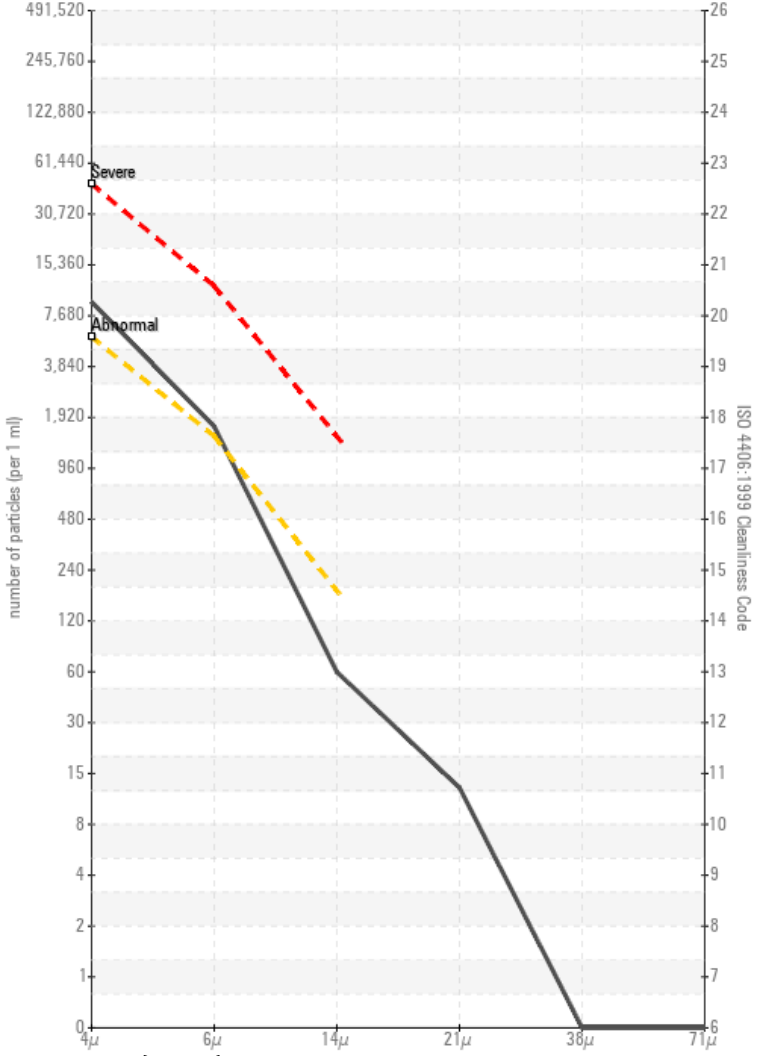
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

