



# CONSTRUCTION EQUIPMENT

## SPM566534 VOLVO L180H 5413 - HYDRAULIC SYSTEM



**Sample No:** VCP423040  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM566534



### SAMPLE INFORMATION

Sample Number	<b>VCP423040</b>	VCP401383	VCP376847	VCP359457
Sample Date	<b>30 Jun 2023</b>	20 May 2023	20 Jul 2022	18 Apr 2022
Machine Hours	<b>5936</b>	5589	4384	3806
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	N/A	N/A	N/A
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ATTENTION	ABNORMAL

### ALTA EQUIPMENT

5985 COURT STREET ROAD  
 SYRACUSE, NY  
 US 13206  
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 T: (315)437-2611  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>39.9</b>	39.9	40.3	40.6
Acid Number (AN)	mg KOH/g	<b>0.44</b>	0.41	0.38	0.43



### CONTAMINATION

Particles >4µm	<b>30452</b>	21612	5989	51430	
Particles >6µm	<b>7230</b>	5512	1434	18338	
Particles >14µm	<b>361</b>	233	66	1811	
ISO 4406:1999 (c)	<b>22/20/16</b>	22/20/15	20/18/13	23/21/18	
Silicon	ppm	<b>4</b>	4	3	3
Sodium	ppm	<b>4</b>	3	2	<1
Potassium	ppm	<b>2</b>	<1	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 high amount of particulates 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>6</b>	6	5	4
Copper	ppm	<b>3</b>	3	3	3
Lead	ppm	<b>1</b>	<1	2	2
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>&lt;1</b>	<1	2	1
Chromium	ppm	<b>1</b>	1	1	<1
Molybdenum	ppm	<b>0</b>	0	<1	<1
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	3	<1
Manganese	ppm	<b>&lt;1</b>	<1	0	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>315</b>	302	272	277
Magnesium	ppm	<b>5</b>	4	2	5
Zinc	ppm	<b>486</b>	471	473	483
Phosphorus	ppm	<b>400</b>	385	379	405
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>2</b>	2	6	0

**Depot:** VOLV00142  
**Unique No:** 10547070  
**Signed:** Angela Borella  
**Report Date:** 07 Jul 2023

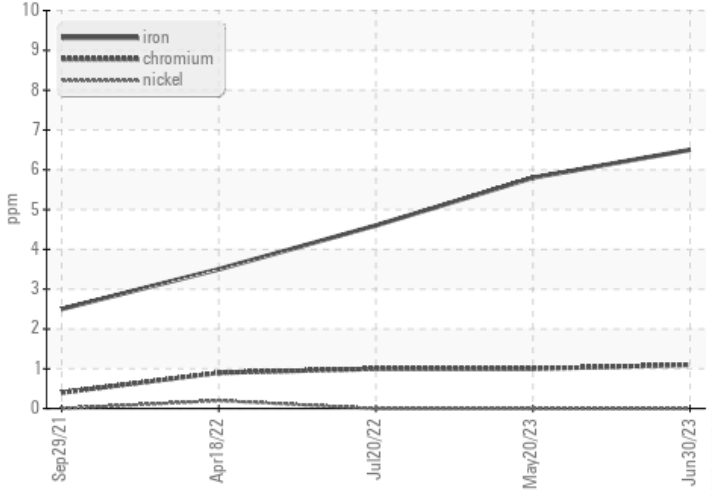


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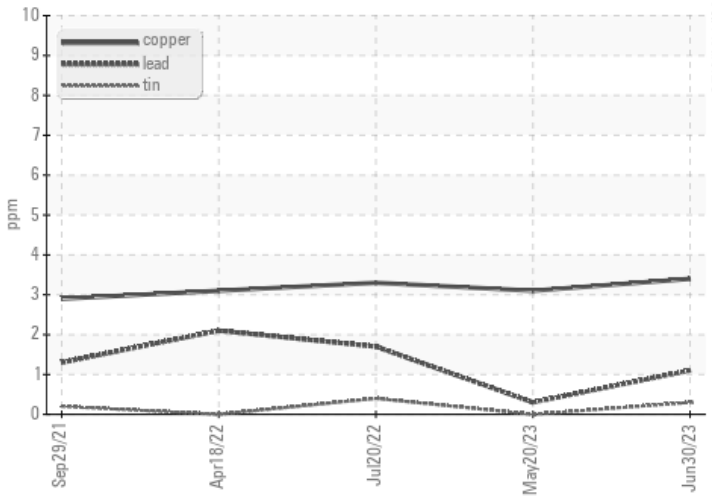


## GRAPHS

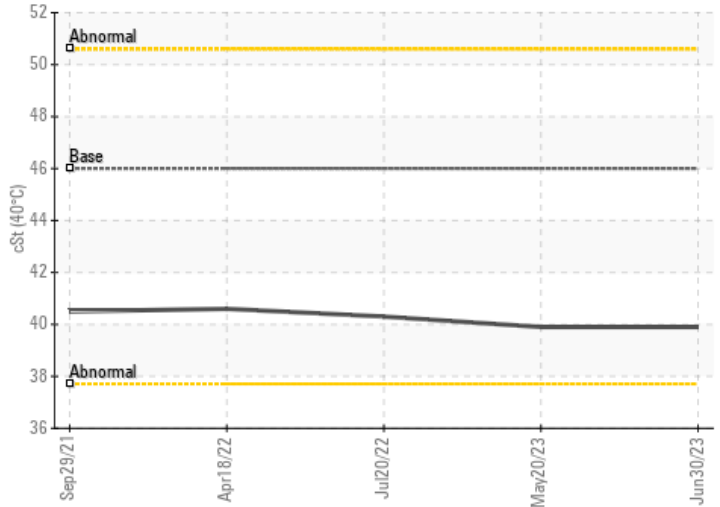
### Ferrous Alloys



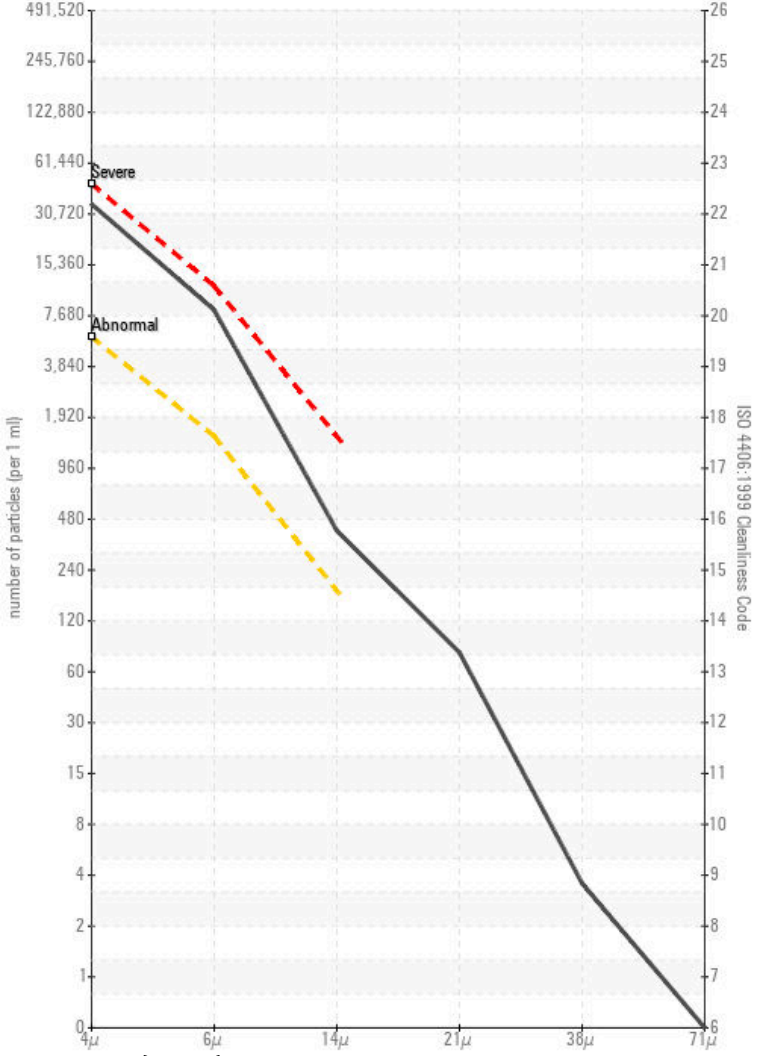
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

