



# CONSTRUCTION EQUIPMENT

## SPM565304 VOLVO EC380E 314966 - HYDRAULIC SYSTEM



**Sample No:** VCP422177  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM565304



### SAMPLE INFORMATION

Sample Number	<b>VCP422177</b>	VCP401613	VCP387486	VCP372565
Sample Date	<b>07 Jun 2023</b>	20 Jan 2023	14 Nov 2022	25 Jul 2022
Machine Hours	<b>4682</b>	1858	2125	994
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### UNITED SCRAP

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 CICERO, IL  
 US 60804  
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 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>43.5</b>	41.8	41.4	43.6
Acid Number (AN)	mg KOH/g	<b>0.49</b>	0.52	0.47	0.62



### CONTAMINATION

Particles >4µm	<b>6721</b>	1939	2942	1521	
Particles >6µm	<b>1863</b>	630	404	240	
Particles >14µm	<b>53</b>	76	20	15	
ISO 4406:1999 (c)	<b>20/18/13</b>	18/16/13	19/16/11	18/15/11	
Silicon	ppm	<b>1</b>	2	4	1
Sodium	ppm	<b>0</b>	0	<1	2
Potassium	ppm	<b>&lt;1</b>	1	0	0

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>4</b>	4	4	4
Copper	ppm	<b>2</b>	7	8	2
Lead	ppm	<b>1</b>	<1	0	<1
Tin	ppm	<b>0</b>	0	<1	1
Aluminum	ppm	<b>0</b>	0	<1	2
Chromium	ppm	<b>4</b>	0	<1	3
Molybdenum	ppm	<b>&lt;1</b>	<1	0	<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>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>131</b>	118	93	141
Magnesium	ppm	<b>53</b>	4	<1	65
Zinc	ppm	<b>949</b>	534	499	993
Phosphorus	ppm	<b>732</b>	400	399	768
Barium	ppm	<b>1</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	2

**Depot:** UNICICIL  
**Unique No:** 10574232  
**Signed:** Wes Davis  
**Report Date:** 27 Jul 2023

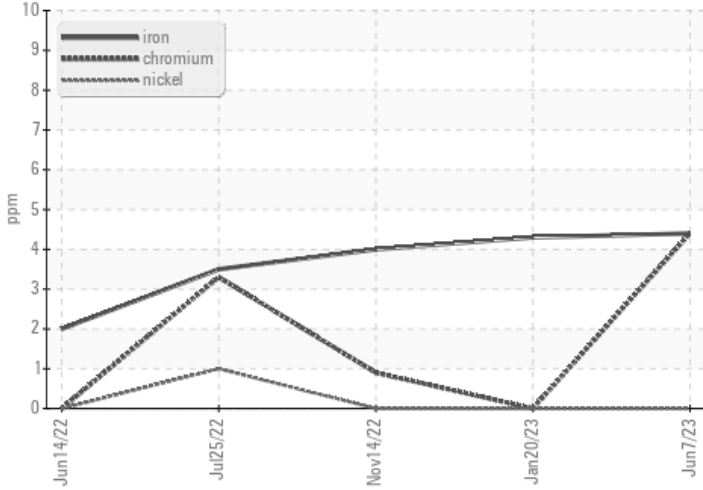


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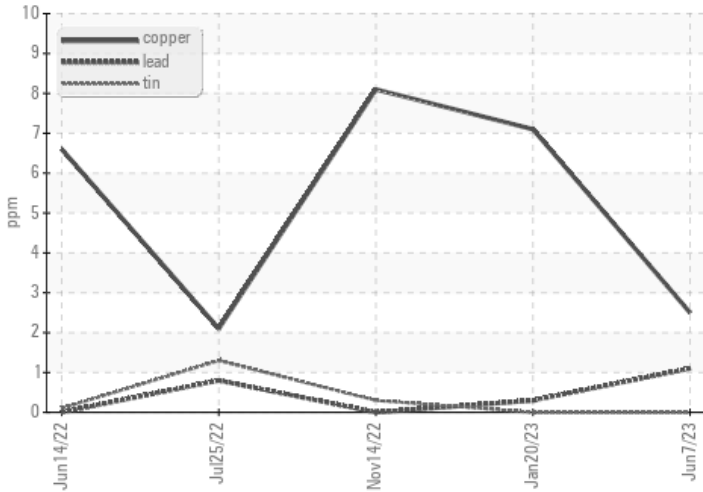


## GRAPHS

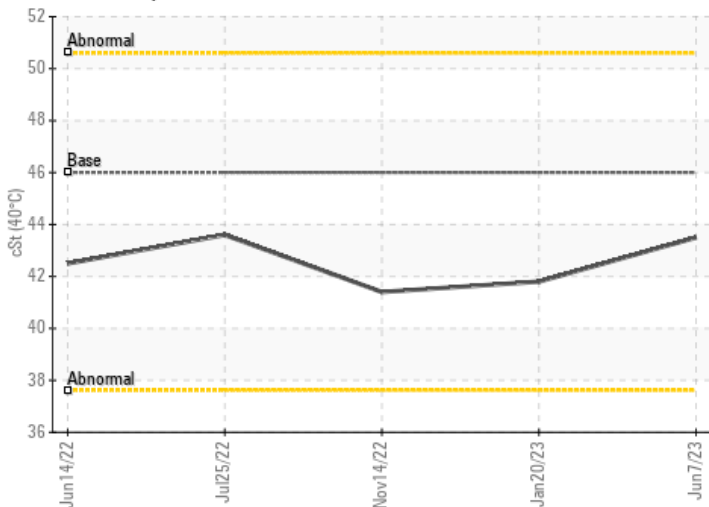
### Ferrous Alloys



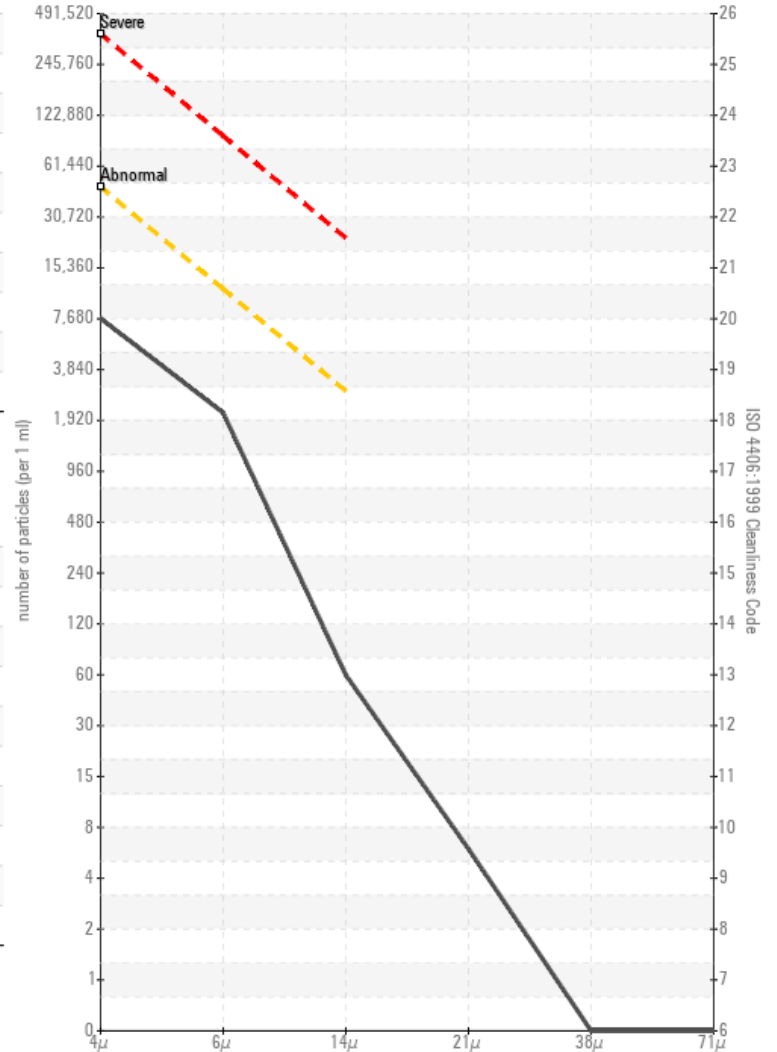
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

