



# CONSTRUCTION EQUIPMENT

## SPM579512 VOLVO EC480EL 314792 - HYDRAULIC SYSTEM



**Sample No:** VCP422855  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM579512



### SAMPLE INFORMATION

Sample Number	<b>VCP422855</b>	VCP404074	VCP369244	VCP387461
Sample Date	<b>07 Jul 2023</b>	21 Apr 2023	26 Jan 2023	27 Oct 2022
Machine Hours	<b>2503</b>	1993	1441	951
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	N/A
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL

### SIMS METAL MANAGEMENT

2500 S. PAULINA  
 CHICAGO, IL  
 US 60608  
 Contact: RYAN WISE  
 ryan.wise@simsmm.com  
 T:  
 F:

### OIL CONDITION

Visc @ 40°C	cSt	<b>42.0</b>	42.7	42.3	42.6
Acid Number (AN)	mg KOH/g	<b>0.47</b>	0.45	0.58	0.52

### CONTAMINATION

Particles >4µm	<b>3430</b>	68925	6727	5610	
Particles >6µm	<b>455</b>	19322	1014	306	
Particles >14µm	<b>10</b>	1870	25	23	
ISO 4406:1999 (c)	<b>19/16/10</b>	23/21/18	20/17/12	20/15/12	
Silicon	ppm	<b>3</b>	3	4	4
Sodium	ppm	<b>2</b>	0	0	0
Potassium	ppm	<b>0</b>	0	0	<1

### 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>6</b>	3	4	3
Copper	ppm	<b>18</b>	18	18	16
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	0	<1
Chromium	ppm	<b>2</b>	<1	<1	<1
Molybdenum	ppm	<b>0</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	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>96</b>	72	89	91
Magnesium	ppm	<b>5</b>	4	5	6
Zinc	ppm	<b>476</b>	446	460	493
Phosphorus	ppm	<b>399</b>	394	372	366
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>0</b>	0	0	<1

**Depot:** SIMCHIL  
**Unique No:** 10560648  
**Signed:** Wes Davis  
**Report Date:** 17 Jul 2023

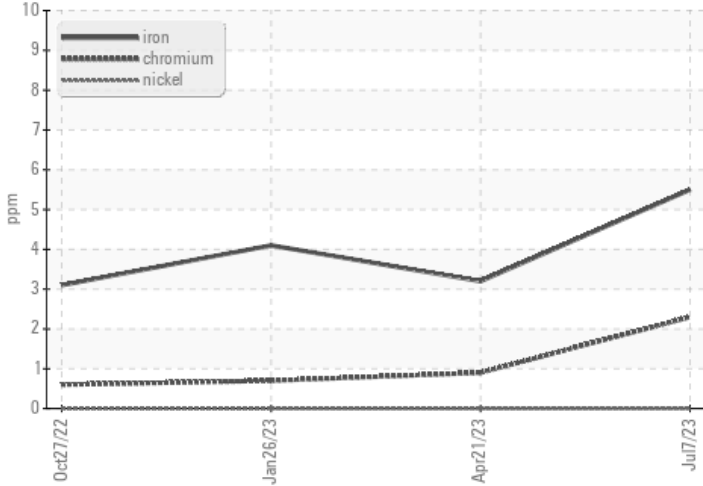


# CONSTRUCTION EQUIPMENT

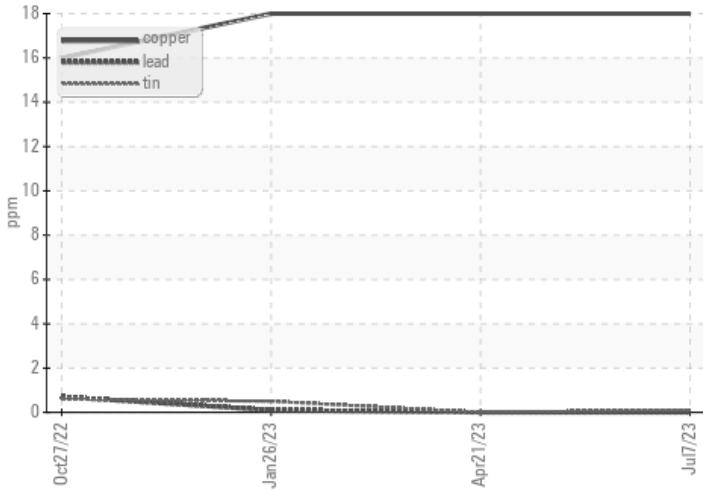


## GRAPHS

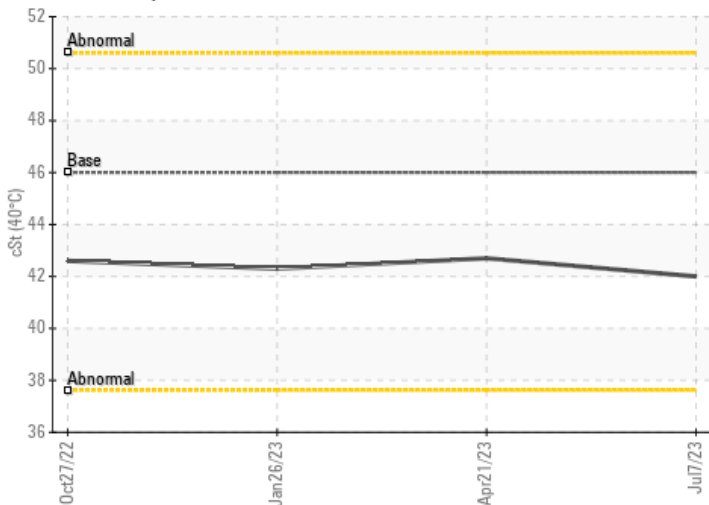
### Ferrous Alloys



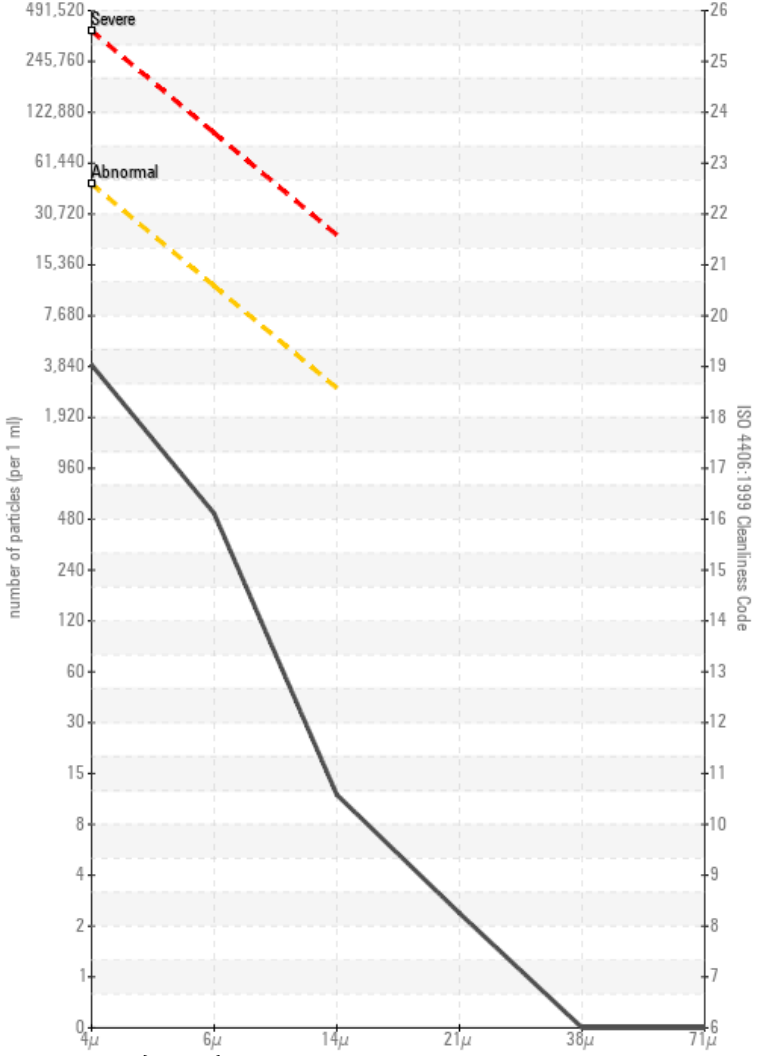
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

