



# CONSTRUCTION EQUIPMENT

## SPM594733 VOLVO EC380E 314966 - HYDRAULIC SYSTEM



**Sample No:** VCP413532  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM594733



### SAMPLE INFORMATION

Sample Number	<b>VCP413532</b>	VCP420037	VCP422177	VCP401613
Sample Date	<b>25 Aug 2023</b>	14 Jul 2023	07 Jun 2023	20 Jan 2023
Machine Hours	<b>5784</b>	4982	4682	1858
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL

**UNITED SCRAP**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>46.8</b>	39.8	43.5	41.8
Acid Number (AN)	mg KOH/g	<b>0.21</b>	0.40	0.49	0.52

### CONTAMINATION

Particles >4µm	<b>7174</b>	1557	6721	1939	
Particles >6µm	<b>1526</b>	462	1863	630	
Particles >14µm	<b>45</b>	47	53	76	
ISO 4406:1999 (c)	<b>20/18/13</b>	18/16/13	20/18/13	18/16/13	
Silicon	ppm	<b>0</b>	3	1	2
Sodium	ppm	<b>0</b>	<1	0	0
Potassium	ppm	<b>0</b>	<1	<1	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>0</b>	6	4	4
Copper	ppm	<b>0</b>	7	2	7
Lead	ppm	<b>0</b>	0	1	<1
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	<1	0	0
Chromium	ppm	<b>0</b>	▲ 24	4	0
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	0
Manganese	ppm	<b>0</b>	<1	0	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>72</b>	78	131	118
Magnesium	ppm	<b>0</b>	2	53	4
Zinc	ppm	<b>407</b>	449	949	534
Phosphorus	ppm	<b>316</b>	348	732	400
Barium	ppm	<b>0</b>	0	1	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** UNICICIL  
**Unique No:** 10634133  
**Signed:** Wes Davis  
**Report Date:** 07 Sep 2023

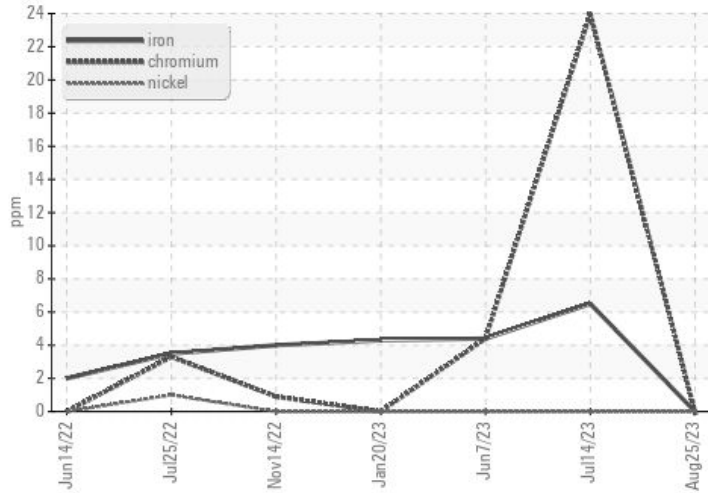


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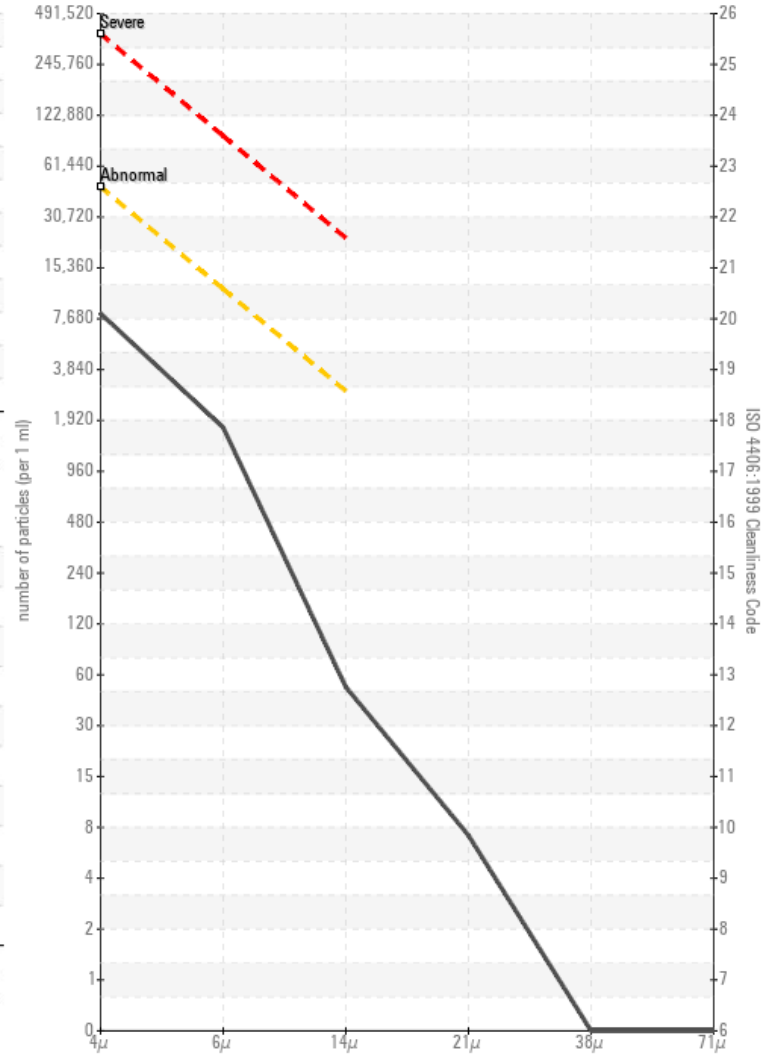


## VOLVO GRAPHS

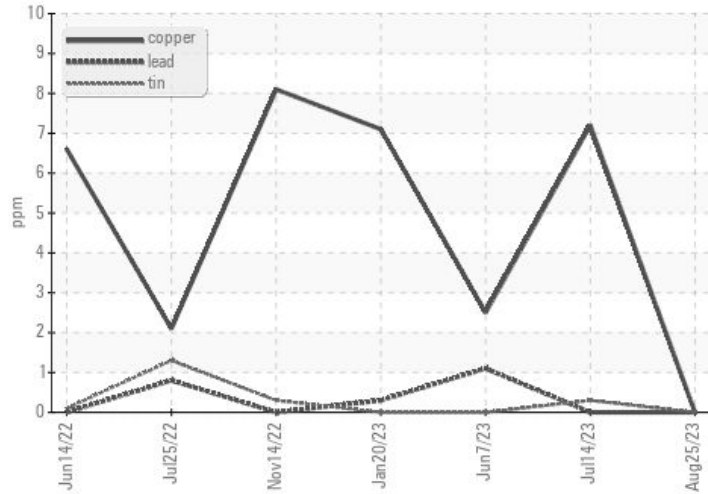
Ferrous Alloys



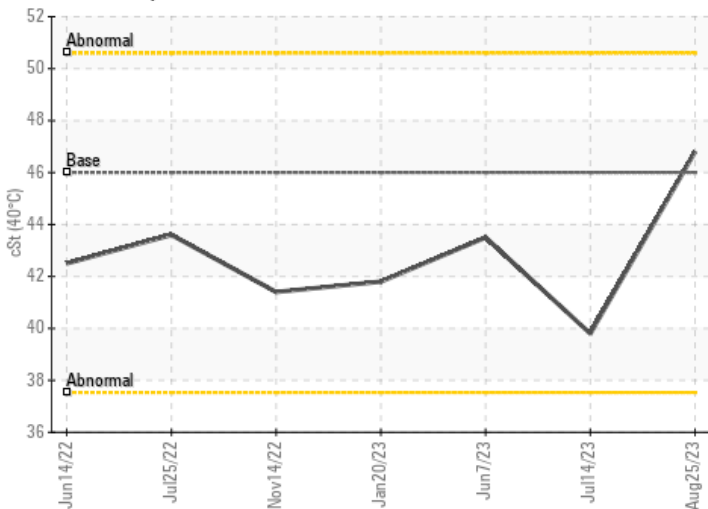
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

