



# CONSTRUCTION EQUIPMENT

## 619854 MOSAIC VOLVO EC480EL 314507 - HYDRAULIC SYSTEM



**Sample No:** VCP436215  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 619854 MOSAIC



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### SAMPLE INFORMATION

Sample Number	<b>VCP436215</b>	VCP410275	VCP354557	VCP350181
Sample Date	<b>09 Oct 2023</b>	15 Mar 2023	25 May 2022	03 Feb 2022
Machine Hours	<b>3761</b>	2945	1666	1118
Oil Hours	<b>2000</b>	1900	1666	1118
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	ATTENTION

### OIL CONDITION

Visc @ 40°C	cSt	<b>41.3</b>	41.3	42.8	46.6
Acid Number (AN)	mg KOH/g	<b>0.35</b>	0.43	0.50	0.46

### CONTAMINATION

Particles >4µm	<b>7695</b>	32408	46098	53257	
Particles >6µm	<b>320</b>	5612	6828	7093	
Particles >14µm	<b>4</b>	97	191	310	
ISO 4406:1999 (c)	<b>20/15/9</b>	22/20/14	23/20/15	23/20/15	
Silicon	ppm	<b>12</b>	6	6	6
Sodium	ppm	<b>2</b>	0	<1	0
Potassium	ppm	<b>1</b>	0	0	1

### WEAR METALS

Iron	ppm	<b>7</b>	5	4	0
Copper	ppm	<b>15</b>	15	21	20
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>2</b>	0	<1	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>97</b>	57	62	77
Magnesium	ppm	<b>6</b>	9	0	1
Zinc	ppm	<b>469</b>	415	444	499
Phosphorus	ppm	<b>374</b>	344	374	373
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	0	<1	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.

**Depot:** VOLVO0093  
**Unique No:** 10742032  
**Signed:** Wes Davis  
**Report Date:** 16 Nov 2023

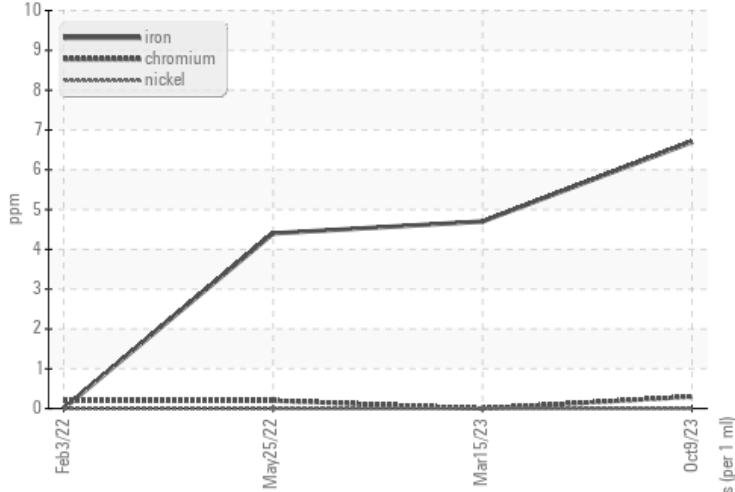


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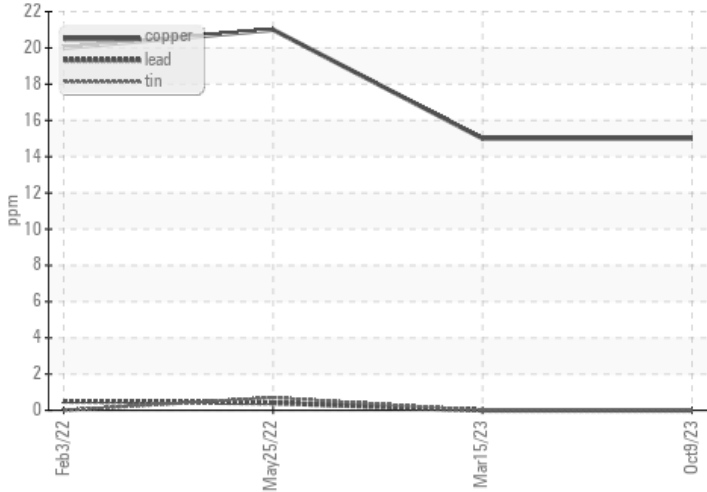


## GRAPHS

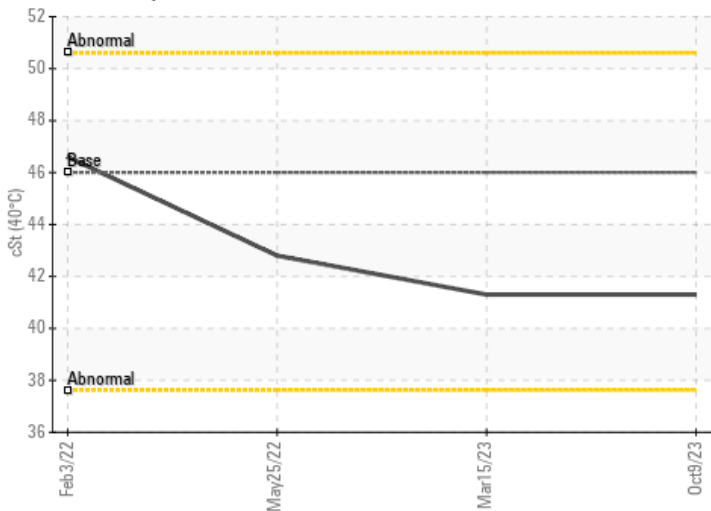
### Ferrous Alloys



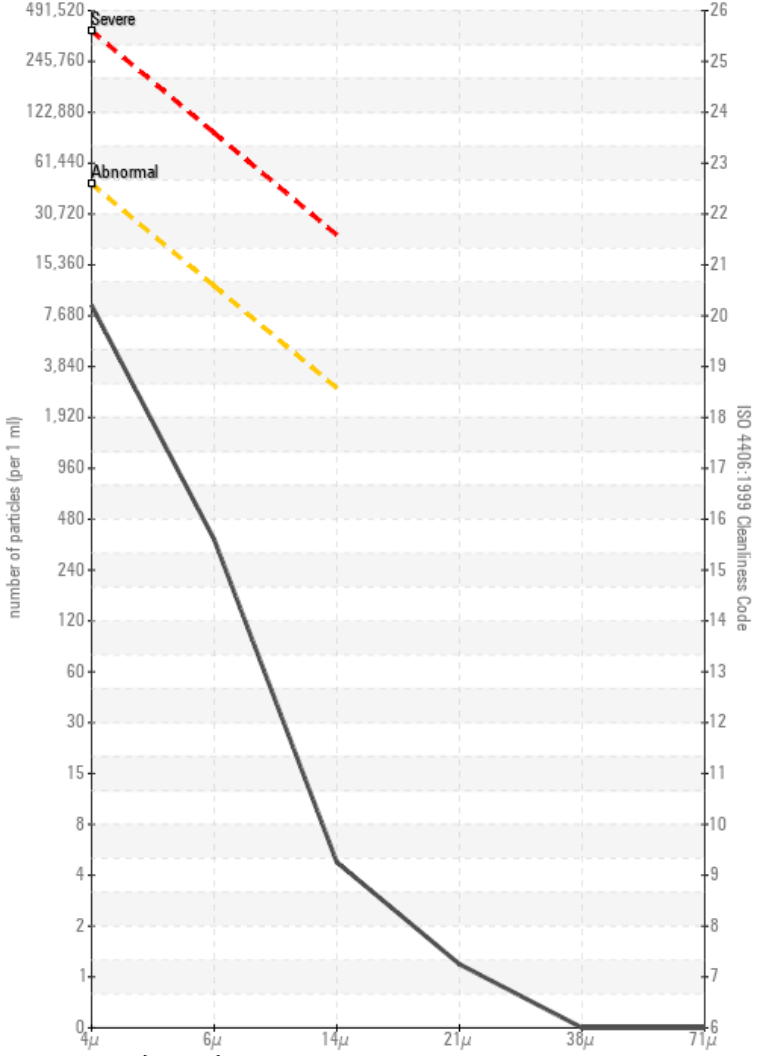
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

