



# CONSTRUCTION EQUIPMENT

## 594455 MOSAIC VOLVO EC480E 314327 - HYDRAULIC SYSTEM



**Sample No:** VCP414650  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 594455 MOSAIC



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### SAMPLE INFORMATION

Sample Number	<b>VCP414650</b>	VCP403994	VCP398832	VCP386620
Sample Date	<b>19 Aug 2023</b>	31 Mar 2023	02 Dec 2022	02 Dec 2022
Machine Hours	<b>4013</b>	3549	3030	3030
Oil Hours	<b>2000</b>	1549	1030	3030
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	NORMAL



### OIL CONDITION

Visc @ 40°C	cSt	<b>43.9</b>	43.3	42.6	43.5
Acid Number (AN)	mg KOH/g	<b>0.34</b>	0.35	0.48	0.50



### CONTAMINATION

Particles >4µm		<b>42575</b>	11287	11773	5425
Particles >6µm		<b>5096</b>	1577	2067	520
Particles >14µm		<b>111</b>	76	33	25
ISO 4406:1999 (c)		<b>23/20/14</b>	21/18/13	21/18/12	20/16/12
Silicon	ppm	<b>6</b>	4	7	4
Sodium	ppm	<b>3</b>	<1	0	<1
Potassium	ppm	<b>0</b>	0	1	0



### WEAR METALS

Iron	ppm	<b>11</b>	8	6	6
Copper	ppm	<b>20</b>	17	26	23
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>1</b>	0	0	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	0
Molybdenum	ppm	<b>&lt;1</b>	<1	0	0
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>&lt;1</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>727</b>	563	60	22
Magnesium	ppm	<b>7</b>	13	2	0
Zinc	ppm	<b>570</b>	467	438	430
Phosphorus	ppm	<b>454</b>	402	355	387
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	0	0	0

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0093  
**Unique No:** 10668729  
**Signed:** Don Baldrige  
**Report Date:** 28 Sep 2023

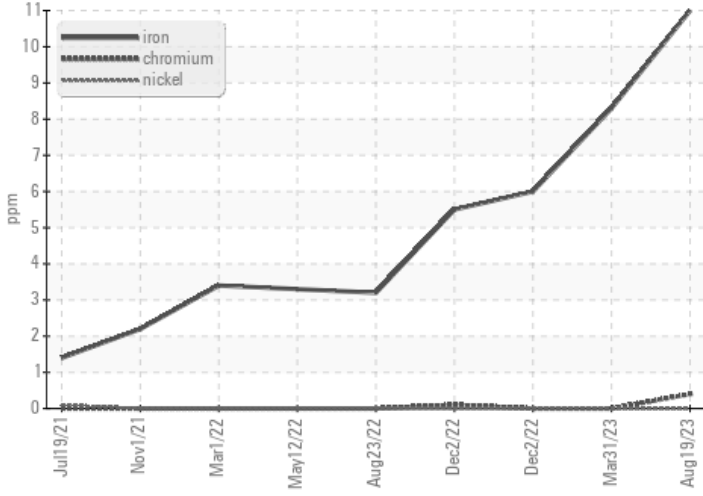


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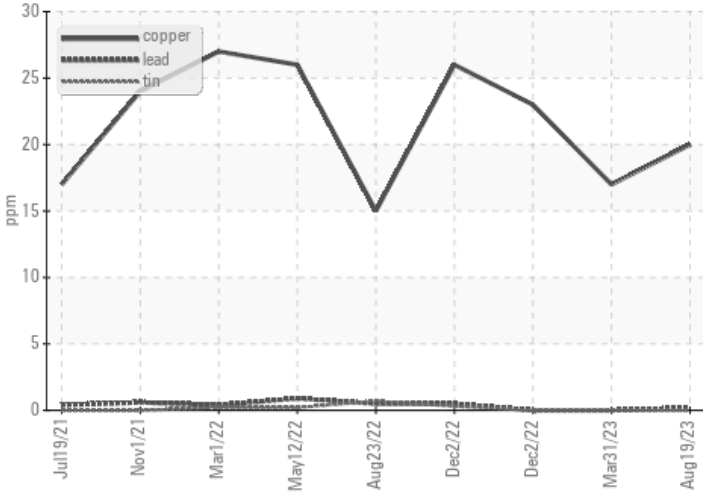


## GRAPHS

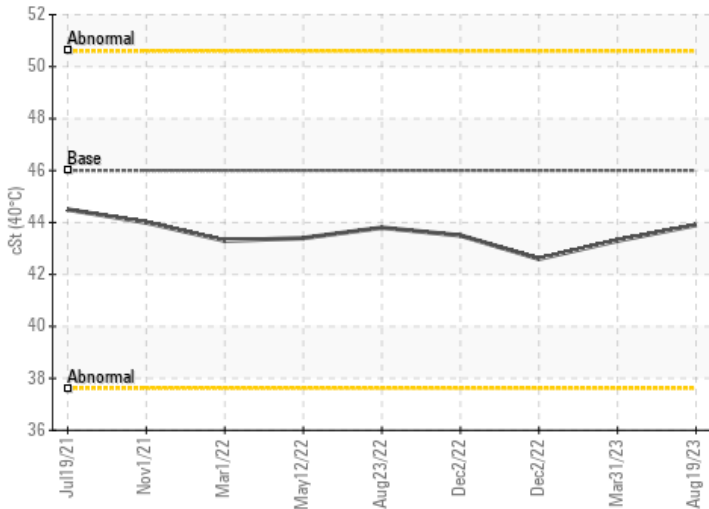
### Ferrous Alloys



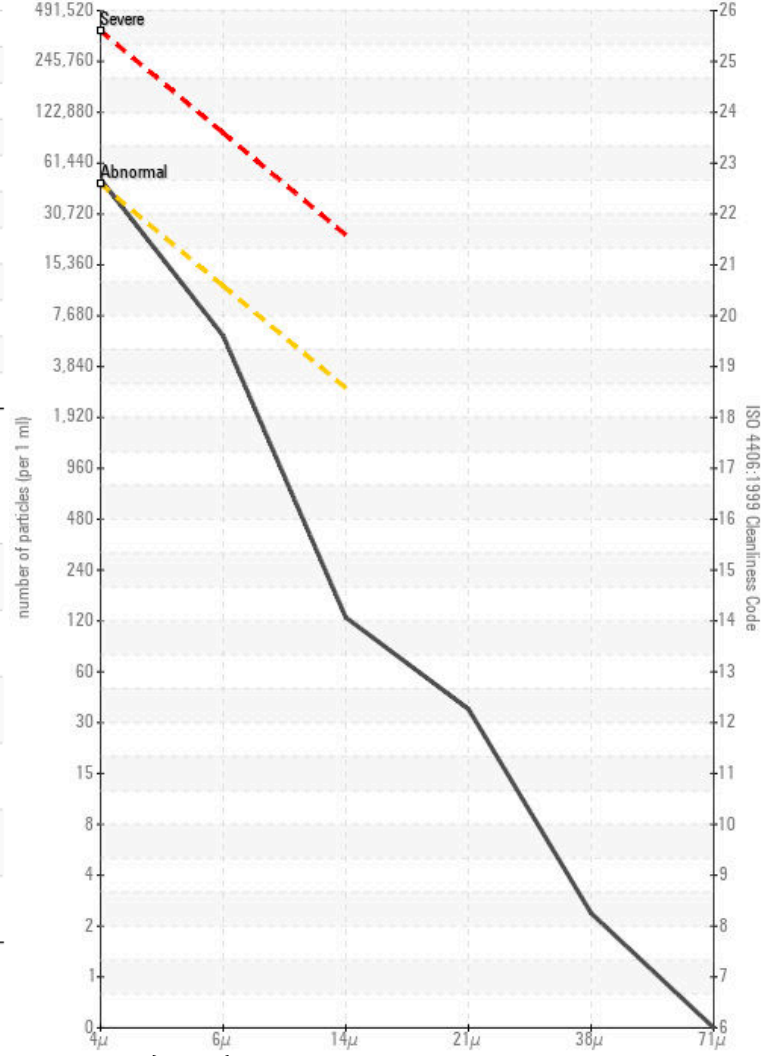
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

