



# CONSTRUCTION EQUIPMENT

## 717089 MOSAIC VOLVO EW160E 324250 - HYDRAULIC SYSTEM



**Sample No:** VCP451198  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 717089 MOSAIC



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### SAMPLE INFORMATION

Sample Number	<b>VCP451198</b>	VCP452271	VCP426239	---
Sample Date	<b>30 May 2024</b>	31 Jan 2024	29 Sep 2023	---
Machine Hours	<b>1568</b>	1027	584	---
Oil Hours	<b>1568</b>	1027	584	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	---
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	---

### OIL CONDITION

Visc @ 40°C	cSt	<b>41.1</b>	42.1	42.4	---
Acid Number (AN)	mg KOH/g	<b>0.65</b>	1.01	0.51	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>3536</b>	5485	42172	---
Particles >6µm		<b>697</b>	393	6268	---
Particles >14µm		<b>27</b>	21	128	---
ISO 4406:1999 (c)		<b>19/17/12</b>	20/16/12	23/20/14	---
Silicon	ppm	<b>6</b>	6	5	---
Sodium	ppm	<b>0</b>	2	1	---
Potassium	ppm	<b>1</b>	1	2	---

### WEAR METALS

Iron	ppm	<b>3</b>	2	0	---
Copper	ppm	<b>28</b>	17	13	---
Lead	ppm	<b>0</b>	<1	1	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>2</b>	<1	<1	---
Chromium	ppm	<b>&lt;1</b>	0	0	---
Molybdenum	ppm	<b>0</b>	0	0	---
Nickel	ppm	<b>0</b>	<1	<1	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>78</b>	84	92	---
Magnesium	ppm	<b>1</b>	1	4	---
Zinc	ppm	<b>560</b>	556	605	---
Phosphorus	ppm	<b>417</b>	408	439	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	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.

**Depot:** VOLVO0093  
**Unique No:** 11087452  
**Signed:** Wes Davis  
**Report Date:** 20 Jun 2024

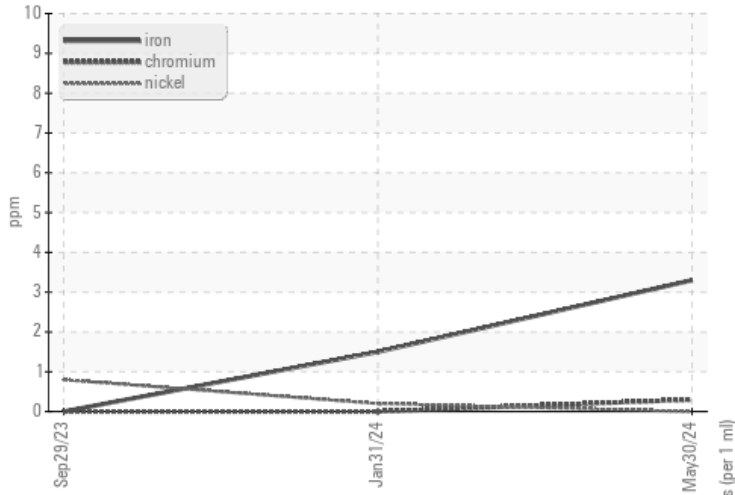


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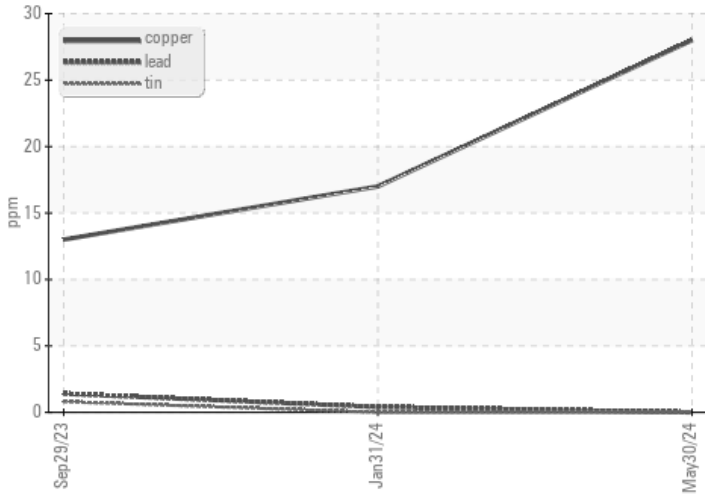


## VOLVO GRAPHS

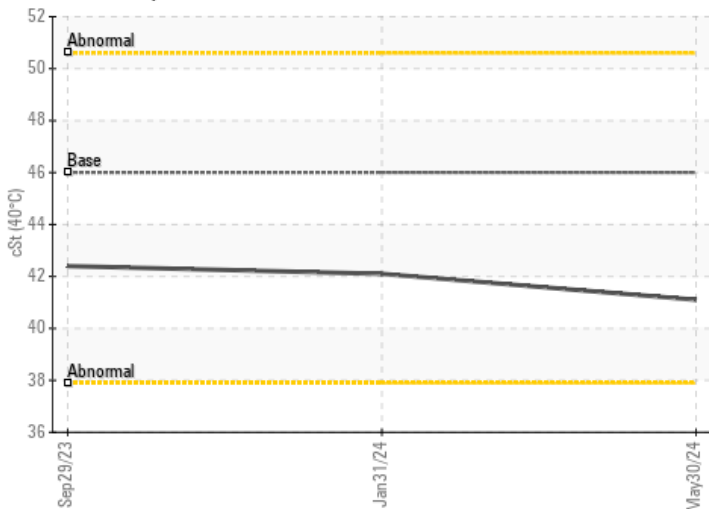
### Ferrous Alloys



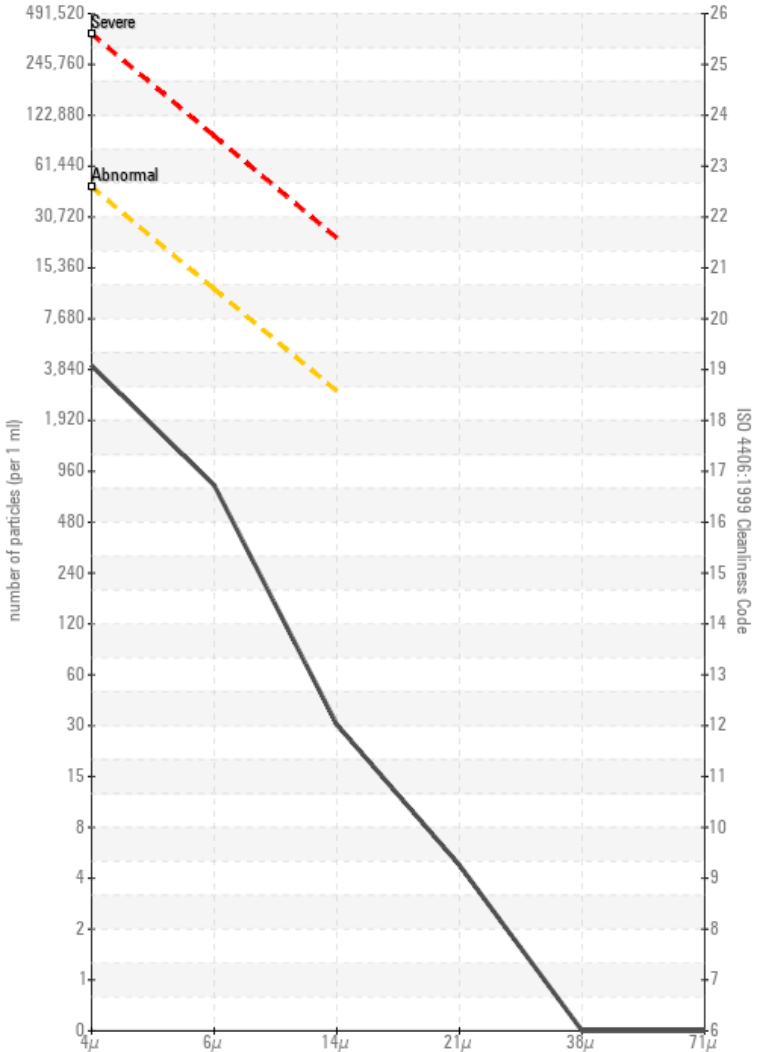
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

