



# CONSTRUCTION EQUIPMENT

## SWA296490 ALL CO REC VOLVO EC140E 314542 - HYDRAULIC SYSTEM



**Sample No:** VCP427130  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWA296490 ALL CO REC



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
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### SAMPLE INFORMATION

Sample Number	VCP427130	VCP369956	---	---
Sample Date	27 Jun 2023	02 Dec 2022	---	---
Machine Hours	2063	1011	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	ATTENTION	---	---

### OIL CONDITION

Visc @ 40°C	cSt	█ 40.3	█ 39.8	---	---
Acid Number (AN)	mg KOH/g	█ 0.62	█ 0.53	---	---

### CONTAMINATION

Particles >4µm	█ 537	▲ 41116	---	---	
Particles >6µm	█ 95	█ 7577	---	---	
Particles >14µm	█ 11	█ 196	---	---	
ISO 4406:1999 (c)	16/14/11	23/20/15	---	---	
Silicon	ppm	█ 4	█ 4	---	---
Sodium	ppm	█ 3	█ 2	---	---
Potassium	ppm	█ 1	█ 0	---	---

### WEAR METALS

Iron	ppm	█ 7	█ 6	---	---
Copper	ppm	█ 36	█ 27	---	---
Lead	ppm	█ <1	█ 1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ <1	█ 1	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 1	█ 2	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	<1	0	---	---

### ADDITIVES

Calcium	ppm	█ 614	█ 635	---	---
Magnesium	ppm	█ 9	█ 7	---	---
Zinc	ppm	█ 603	█ 518	---	---
Phosphorus	ppm	█ 480	█ 439	---	---
Barium	ppm	█ <1	█ 0	---	---
Boron	ppm	█ 16	█ 16	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**Depot:** VOLVO0093  
**Unique No:** 10547072  
**Signed:** Angela Borella  
**Report Date:** 07 Jul 2023

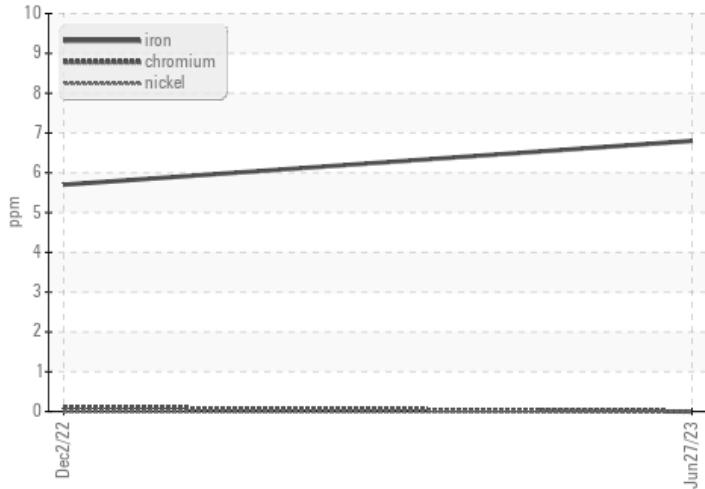


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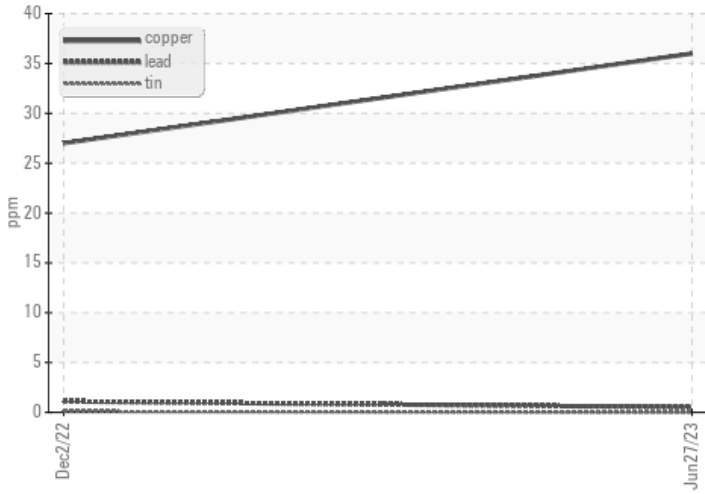


## GRAPHS

### Ferrous Alloys



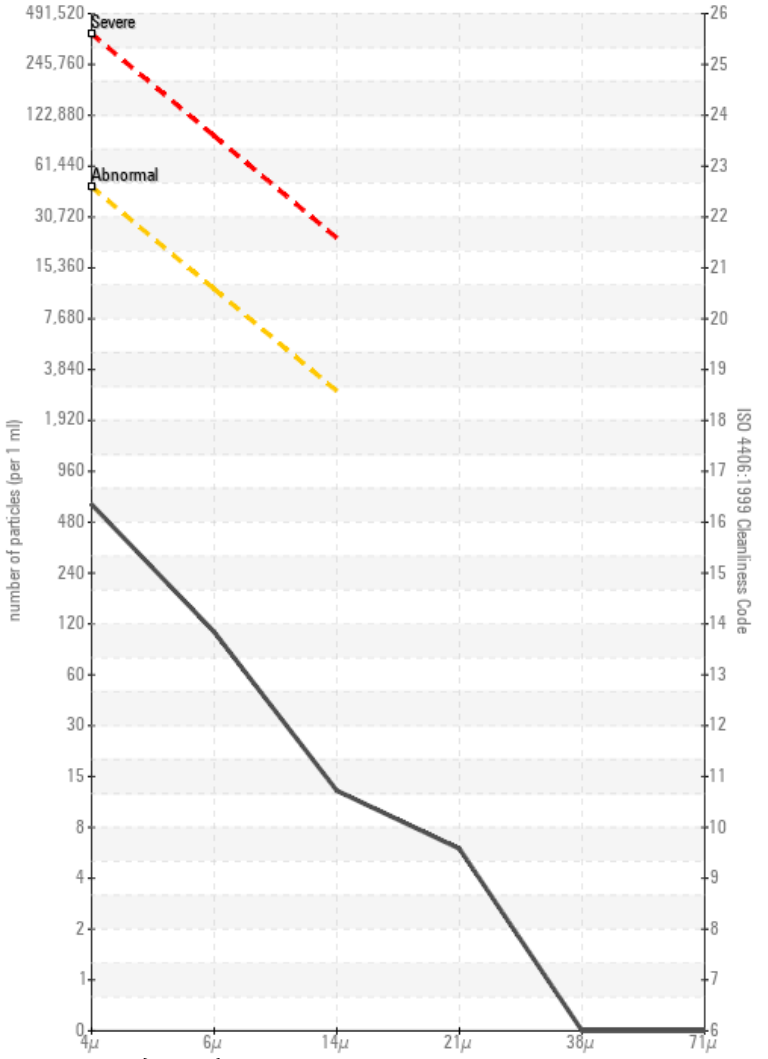
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

