



# CONSTRUCTION EQUIPMENT

## 19593 VOLVO EC140 31556 - HYDRAULIC SYSTEM



**Sample No:** VCP414693  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 19593



### SAMPLE INFORMATION

Sample Number	<b>VCP414693</b>	VCP412247	VCP381106	---
Sample Date	<b>28 Sep 2023</b>	23 Jul 2023	24 Feb 2023	---
Machine Hours	<b>2743</b>	2129	651	---
Oil Hours	<b>614</b>	2129	0	---
Oil Changed	<b>Not Chngd</b>	Changed	N/A	---
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	---

### HILCO TRANSPORT

7700 KENMONT RD  
 GREENSBORO, NC  
 US 27409  
 Contact: MIKE LAUGHEAD  
 mlaughead@hilcotransport.com  
 T: (336)273-9441  
 F: (336)273-9701

### OIL CONDITION

Visc @ 40°C	cSt	<b>38.4</b>	▲ 33.5	■ 42.0	---
Acid Number (AN)	mg KOH/g	<b>0.27</b>	■ 0.41	■ 0.51	---

### CONTAMINATION

Particles >4µm		<b>710</b>	33159	5450	---
Particles >6µm		<b>164</b>	▲ 13626	■ 1652	---
Particles >14µm		<b>16</b>	▲ 1377	▲ 221	---
ISO 4406:1999 (c)		<b>17/15/11</b>	22/21/18	20/18/15	---
Silicon	ppm	<b>2</b>	■ 3	■ 3	---
Sodium	ppm	<b>1</b>	■ 0	■ 2	---
Potassium	ppm	<b>&lt;1</b>	■ 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.

### WEAR METALS

Iron	ppm	<b>&lt;1</b>	■ 2	■ 0	---
Copper	ppm	<b>3</b>	■ 6	■ 3	---
Lead	ppm	<b>0</b>	■ <1	■ 0	---
Tin	ppm	<b>0</b>	■ 0	■ 0	---
Aluminum	ppm	<b>&lt;1</b>	■ 0	■ 0	---
Chromium	ppm	<b>0</b>	■ <1	■ 0	---
Molybdenum	ppm	<b>0</b>	■ <1	■ 0	---
Nickel	ppm	<b>0</b>	■ <1	■ 0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	■ 0	■ 0	---
Vanadium	ppm	<b>0</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>57</b>	■ 65	■ 85	---
Magnesium	ppm	<b>&lt;1</b>	■ 1	■ 0	---
Zinc	ppm	<b>458</b>	■ 483	■ 539	---
Phosphorus	ppm	<b>329</b>	■ 363	■ 405	---
Barium	ppm	<b>&lt;1</b>	■ 0	■ 0	---
Boron	ppm	<b>0</b>	■ 0	■ 0	---

**Depot:** HILGREVC  
**Unique No:** 10701994  
**Signed:** Wes Davis  
**Report Date:** 23 Oct 2023

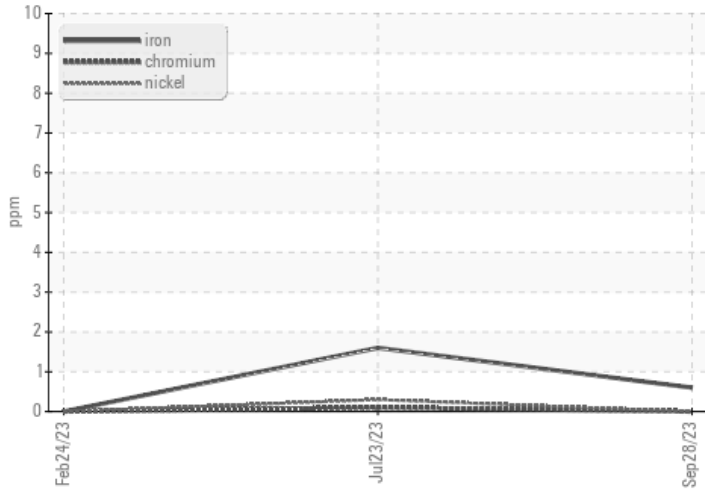


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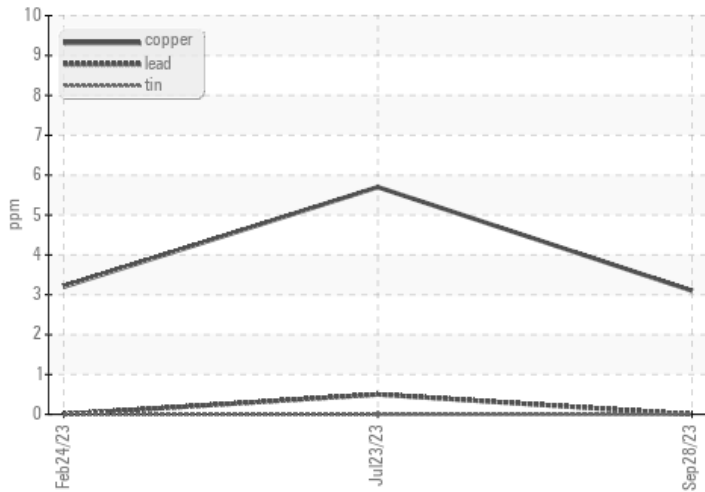


## VOLVO GRAPHS

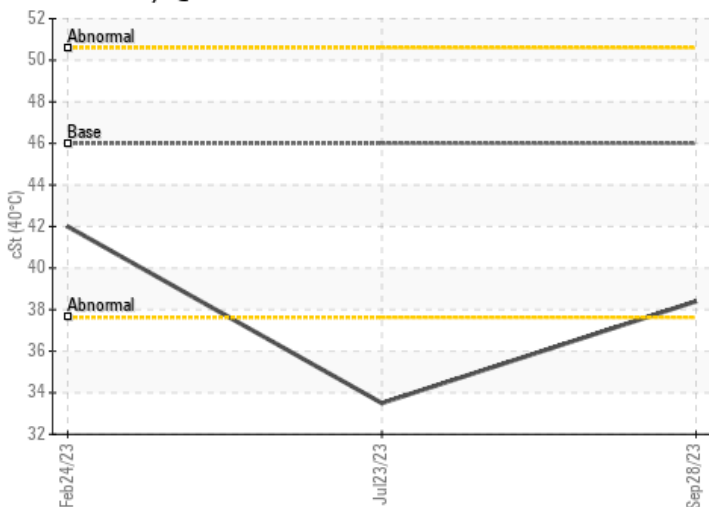
### Ferrous Alloys



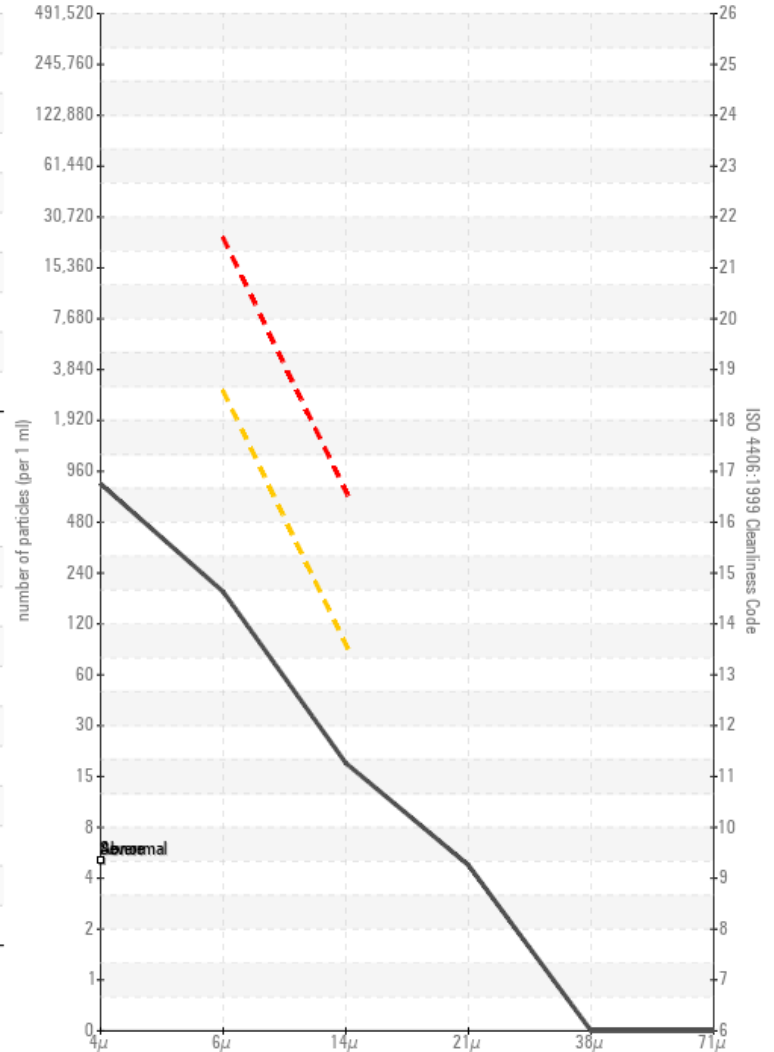
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

