



# CONSTRUCTION EQUIPMENT

## 715570 VOLVO ECR145EL 315939 - HYDRAULIC SYSTEM



**Sample No:** VCP340009  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 715570



### SAMPLE INFORMATION

Sample Number	<b>VCP340009</b>	VCP392744	VCP367200	---
Sample Date	<b>14 Jun 2024</b>	28 Apr 2023	12 Sep 2022	---
Machine Hours	<b>2070</b>	1009	495	---
Oil Hours	<b>2070</b>	1009	495	---
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**RIPA AND ASSOCIATES**  
 10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: PM Services  
 PMServices@ripaconstruction.com  
 T:  
 F:

### OIL CONDITION

Visc @ 40°C	cSt	<b>43.4</b>	42.9	43.1	---
Acid Number (AN)	mg KOH/g	<b>0.61</b>	0.53	0.55	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>10768</b>	23966	19265	---
Particles >6µm		<b>3122</b>	5346	3545	---
Particles >14µm		<b>226</b>	475	94	---
ISO 4406:1999 (c)		<b>21/19/15</b>	22/20/16	21/19/14	---
Silicon	ppm	<b>9</b>	6	6	---
Sodium	ppm	<b>1</b>	2	<1	---
Potassium	ppm	<b>0</b>	2	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>3</b>	1	1	---
Copper	ppm	<b>31</b>	25	21	---
Lead	ppm	<b>&lt;1</b>	1	<1	---
Tin	ppm	<b>0</b>	<1	0	---
Aluminum	ppm	<b>&lt;1</b>	<1	<1	---
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>	<1	0	---
Vanadium	ppm	<b>0</b>	0	0	---

### ADDITIVES

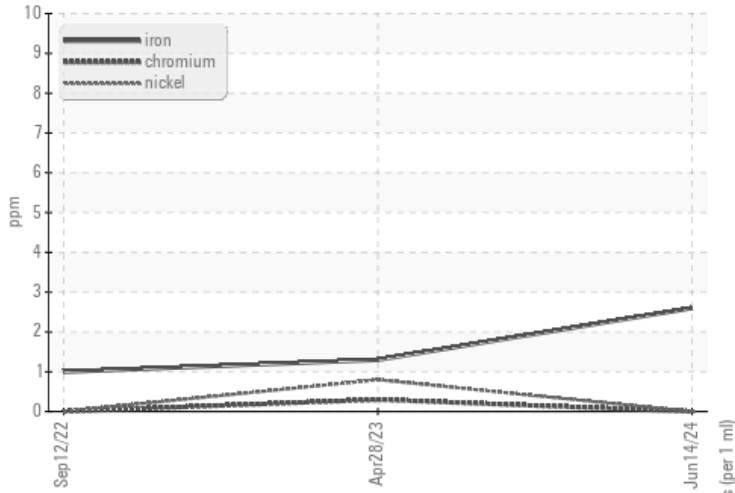
Calcium	ppm	<b>77</b>	93	89	---
Magnesium	ppm	<b>2</b>	1	0	---
Zinc	ppm	<b>542</b>	595	519	---
Phosphorus	ppm	<b>432</b>	426	402	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	0	0	---

**Depot:** RIPTAM  
**Unique No:** 11126533  
**Signed:** Wes Davis  
**Report Date:** 17 Jul 2024

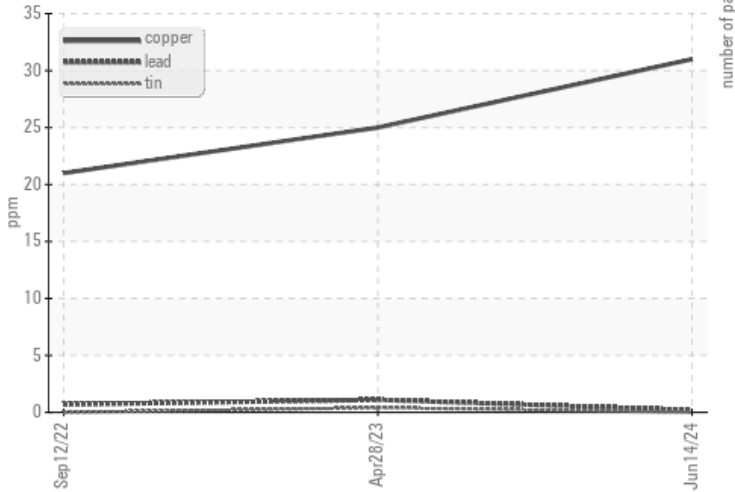


## GRAPHS

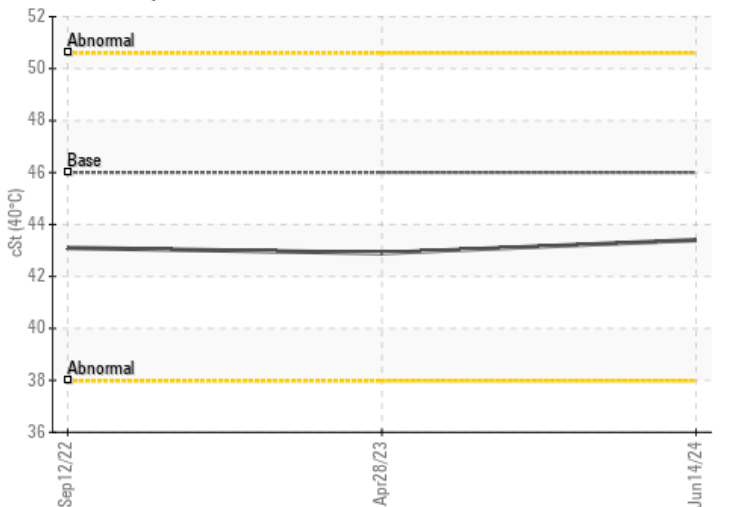
### Ferrous Alloys



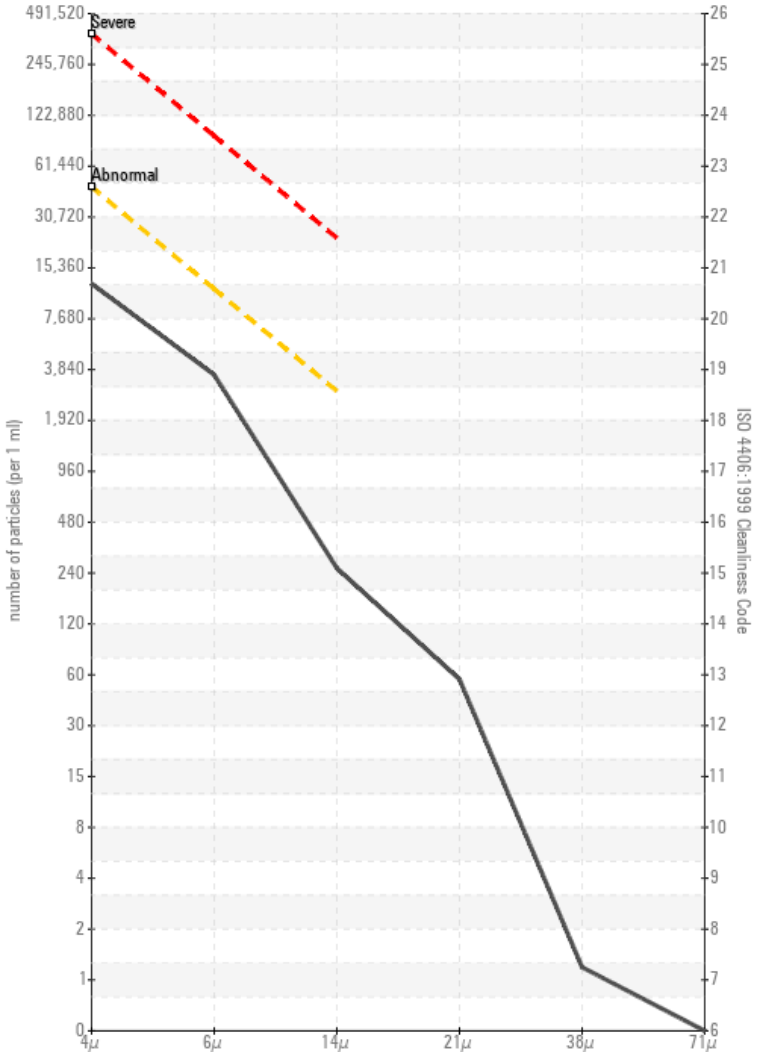
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

