



# CONSTRUCTION EQUIPMENT

## 3034 VOLVO ECR145EL 315064 - HYDRAULIC SYSTEM



**Sample No:** VCP397894

**Oil Type:** CASTROL 46

**Job No:** 3034



### SAMPLE INFORMATION

Sample Number	<b>VCP397894</b>	VCP350750	VCP327796	---
Sample Date	<b>09 Nov 2023</b>	25 May 2022	19 Nov 2021	---
Machine Hours	<b>2410</b>	960	495	---
Oil Hours	<b>0</b>	960	495	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---



### LEONARDS CONTRACTING

30850 STEPHENSON HWY  
MADISON HEIGHTS, MI  
US 48071

Contact: LARRY SCHRADER  
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F: x:



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.7</b>	42.5	41.0	---
Acid Number (AN)	mg KOH/g	<b>0.60</b>	0.50	0.359	---



### CONTAMINATION

Water	%	<b>&lt;0.1</b>	<0.1	<0.1	---
Particles >4µm		<b>38546</b>	3130	8563	---
Particles >6µm		<b>3483</b>	514	2178	---
Particles >14µm		<b>145</b>	50	215	---
ISO 4406:1999 (c)		<b>22/19/14</b>	19/16/13	20/18/15	---
Silicon	ppm	<b>12</b>	7	4	---
Sodium	ppm	<b>3</b>	<1	3	---
Potassium	ppm	<b>1</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.



### WEAR METALS

Iron	ppm	<b>7</b>	3	8	---
Copper	ppm	<b>26</b>	24	2	---
Lead	ppm	<b>&lt;1</b>	1	<1	---
Tin	ppm	<b>0</b>	0	0	---
Aluminum	ppm	<b>2</b>	<1	<1	---
Chromium	ppm	<b>&lt;1</b>	<1	1	---
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	0	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>48</b>	93	114	---
Magnesium	ppm	<b>0</b>	<1	3	---
Zinc	ppm	<b>437</b>	488	383	---
Phosphorus	ppm	<b>300</b>	383	317	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	<1	<1	---

**Depot:** LEOMAD  
**Unique No:** 10749852  
**Signed:** Wes Davis  
**Report Date:** 20 Nov 2023

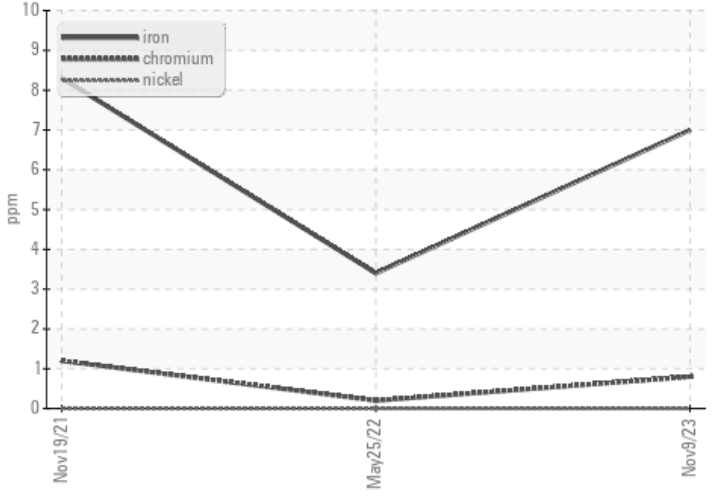


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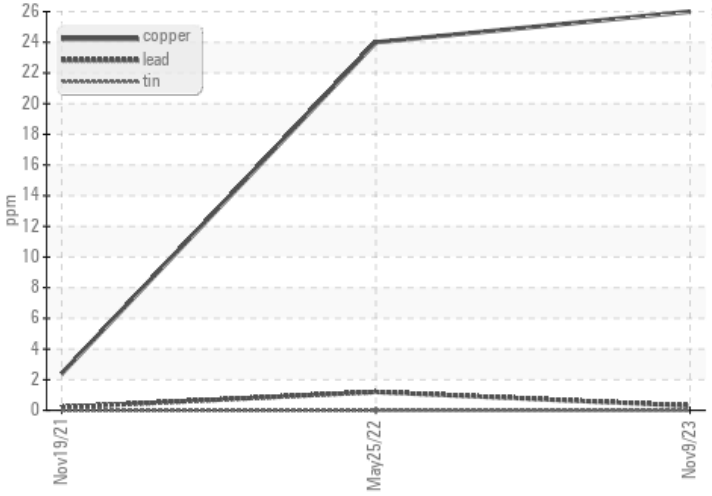


## VOLVO GRAPHS

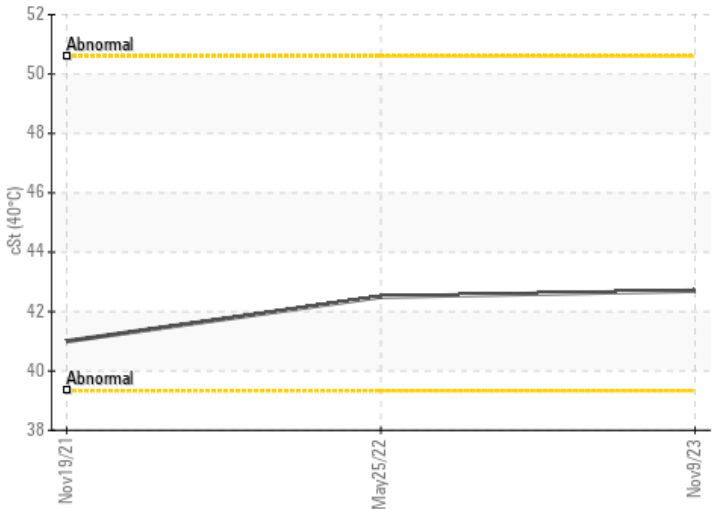
### Ferrous Alloys



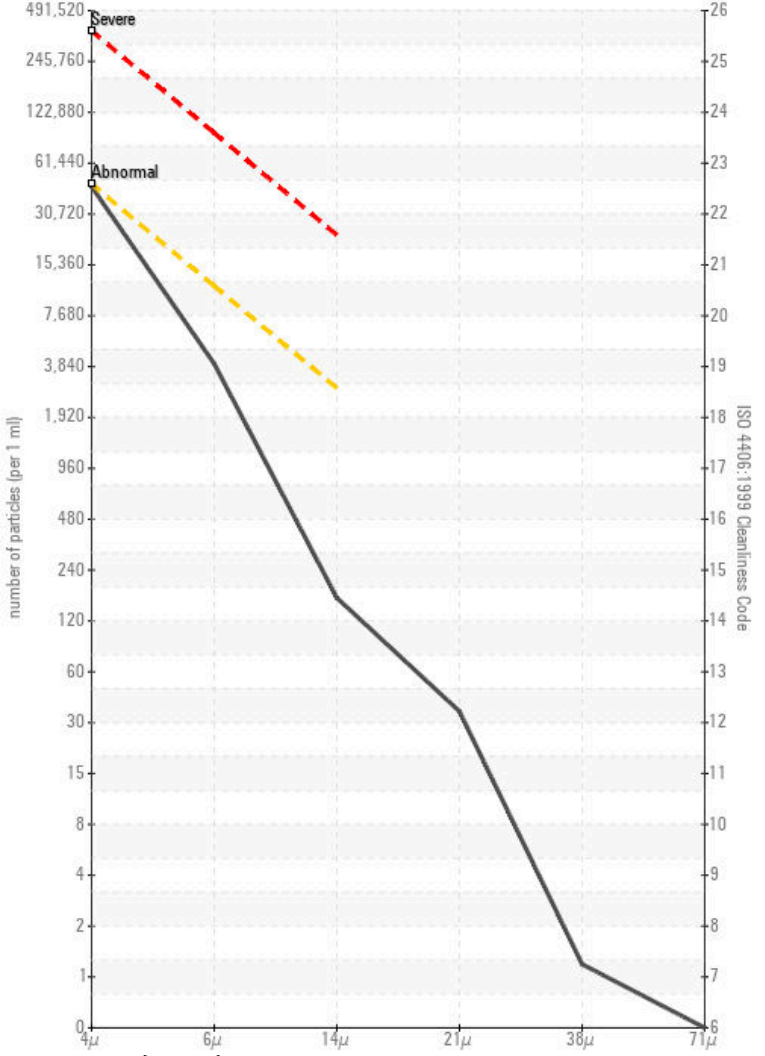
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

