



# CONSTRUCTION EQUIPMENT

## 564312 VOLVO ECR145 315091 - HYDRAULIC SYSTEM



**Sample No:** VCP450723  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 564312



### SAMPLE INFORMATION

Sample Number	<b>VCP450723</b>	VCP437460	VCP427184	VCP406581
Sample Date	<b>21 May 2024</b>	10 Jan 2024	04 Aug 2023	10 Apr 2023
Machine Hours	<b>3348</b>	2869	2365	1864
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**JON M HALL COMPANY**  
 1920 BOOTHE CIRCLE SUITE 110  
 LONGWOOD, FL  
 US 32750  
 Contact: SERVICE MANAGER



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.1</b>	42.1	42.1	42.5
Acid Number (AN)	mg KOH/g	<b>0.43</b>	0.51	0.48	0.52

T: (407)215-0410  
 F:



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>12603</b>	20335	2763	928
Particles >6µm		<b>2541</b>	7323	361	316
Particles >14µm		<b>125</b>	1044	13	46
ISO 4406:1999 (c)		<b>21/19/14</b>	22/20/17	19/16/11	17/15/13
Silicon	ppm	<b>6</b>	6	5	7
Sodium	ppm	<b>1</b>	1	1	1
Potassium	ppm	<b>&lt;1</b>	0	0	1

**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>	3	2	1
Copper	ppm	<b>16</b>	16	15	22
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	0	<1	0
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>0</b>	0	0	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>54</b>	50	64	62
Magnesium	ppm	<b>2</b>	0	1	2
Zinc	ppm	<b>427</b>	431	467	466
Phosphorus	ppm	<b>359</b>	355	396	390
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** JONLON  
**Unique No:** 11048868  
**Signed:** Wes Davis  
**Report Date:** 29 May 2024

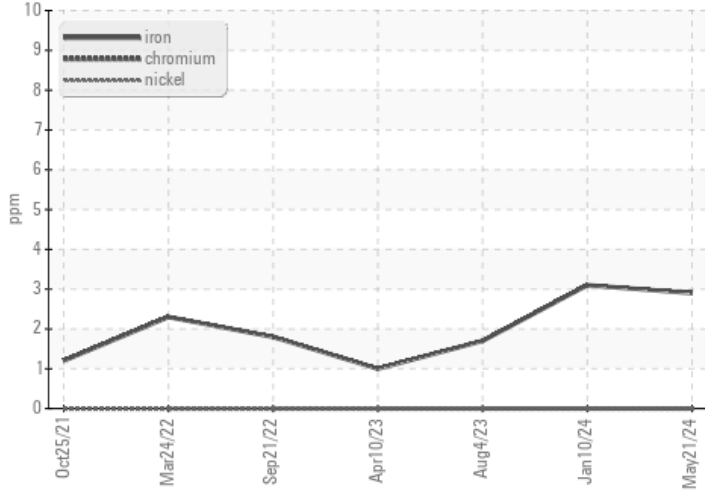


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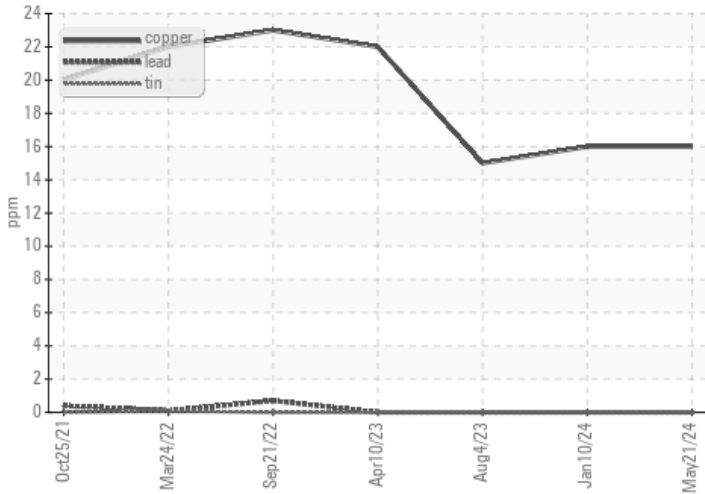


## GRAPHS

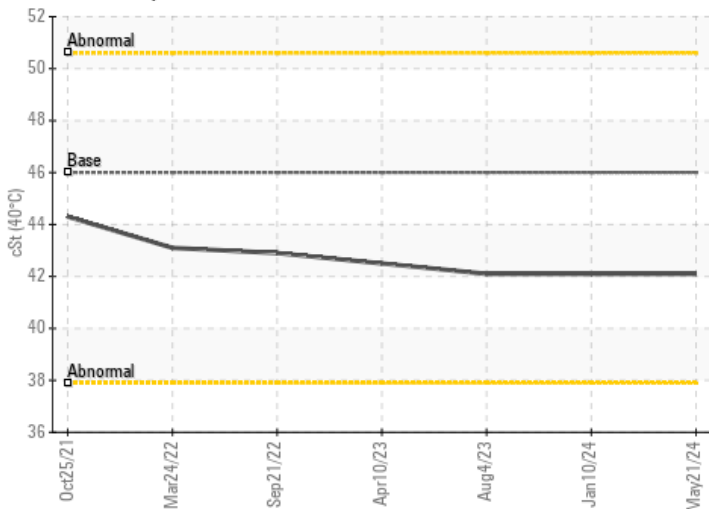
### Ferrous Alloys



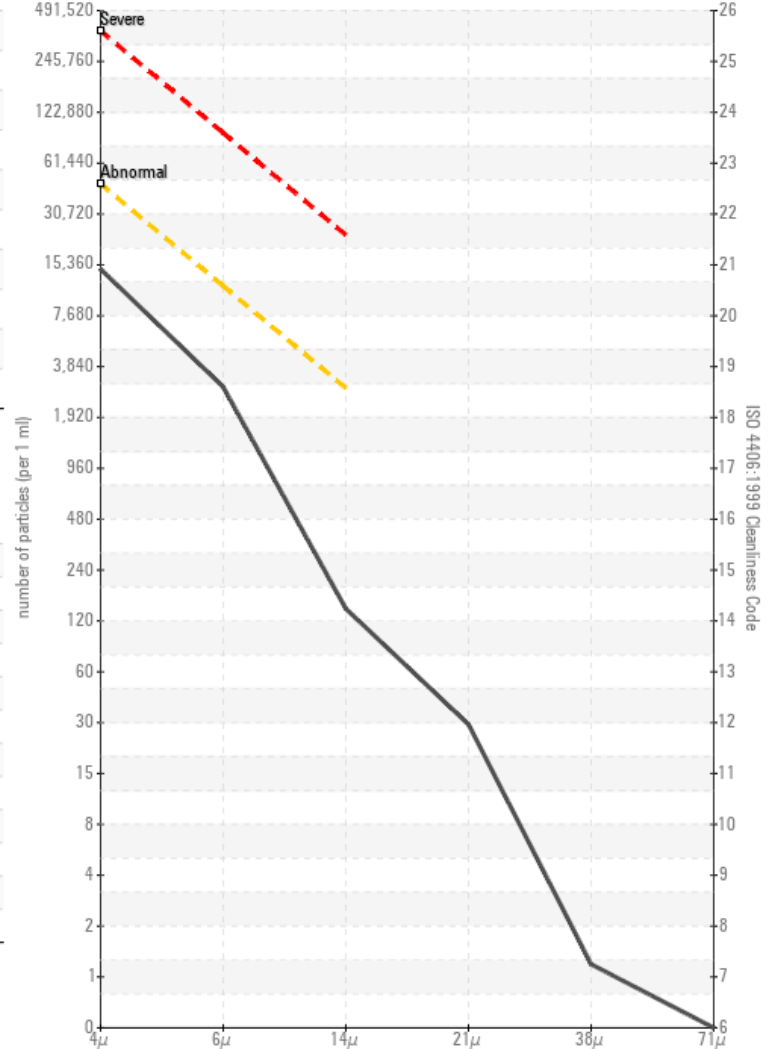
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

