



# CONSTRUCTION EQUIPMENT

## TUCKER VOLVO ECR145E 315117 - HYDRAULIC SYSTEM



**Sample No:** VCP443748  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** TUCKER



### SAMPLE INFORMATION

Sample Number	<b>VCP443748</b>	VCP432104	VCP415946	VCP390726
Sample Date	<b>23 May 2024</b>	08 Nov 2023	13 Jun 2023	04 Nov 2022
Machine Hours	<b>3934</b>	3320	2778	2053
Oil Hours	<b>0</b>	0	0	2053
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.0</b>	41.2	41.2	42.2
Acid Number (AN)	mg KOH/g	<b>0.47</b>	0.44	0.46	0.60



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>18790</b>	12345	97217	8153
Particles >6µm		<b>3711</b>	3916	32570	1540
Particles >14µm		<b>175</b>	485	1781	98
ISO 4406:1999 (c)		<b>21/19/15</b>	21/19/16	24/22/18	20/18/14
Silicon	ppm	<b>6</b>	6	6	8
Sodium	ppm	<b>1</b>	2	<1	<1
Potassium	ppm	<b>&lt;1</b>	0	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>1</b>	0	2	3
Copper	ppm	<b>18</b>	18	16	26
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	<1	2	<1
Chromium	ppm	<b>0</b>	<1	0	<1
Molybdenum	ppm	<b>4</b>	3	6	<1
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>	<1	0	0
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>89</b>	90	99	77
Magnesium	ppm	<b>12</b>	12	11	0
Zinc	ppm	<b>436</b>	431	464	471
Phosphorus	ppm	<b>345</b>	341	380	384
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** VOLVO0093  
**Unique No:** 11048866  
**Signed:** Wes Davis  
**Report Date:** 29 May 2024

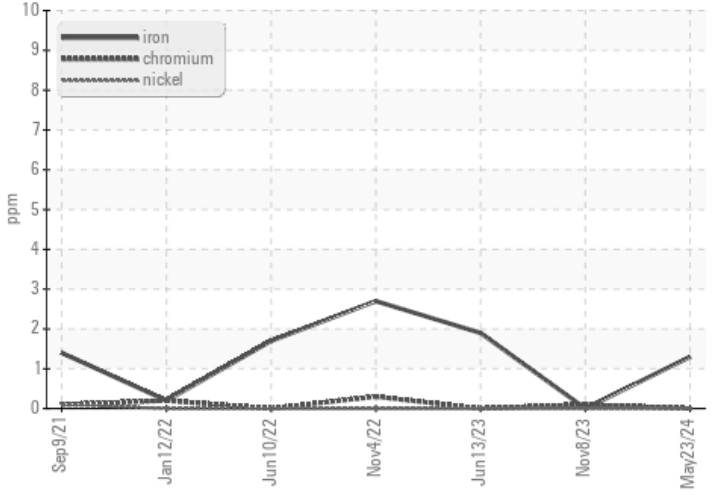


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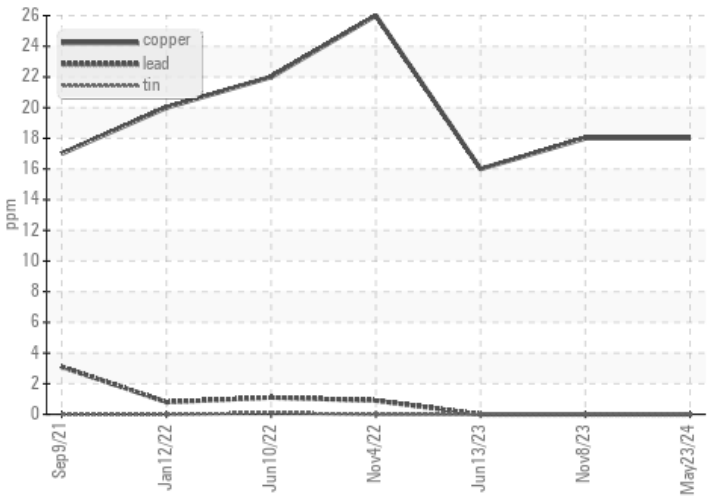


## GRAPHS

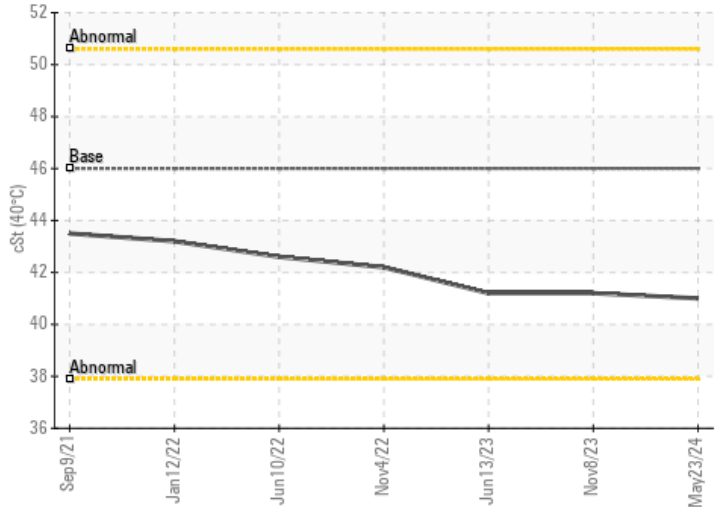
Ferrous Alloys



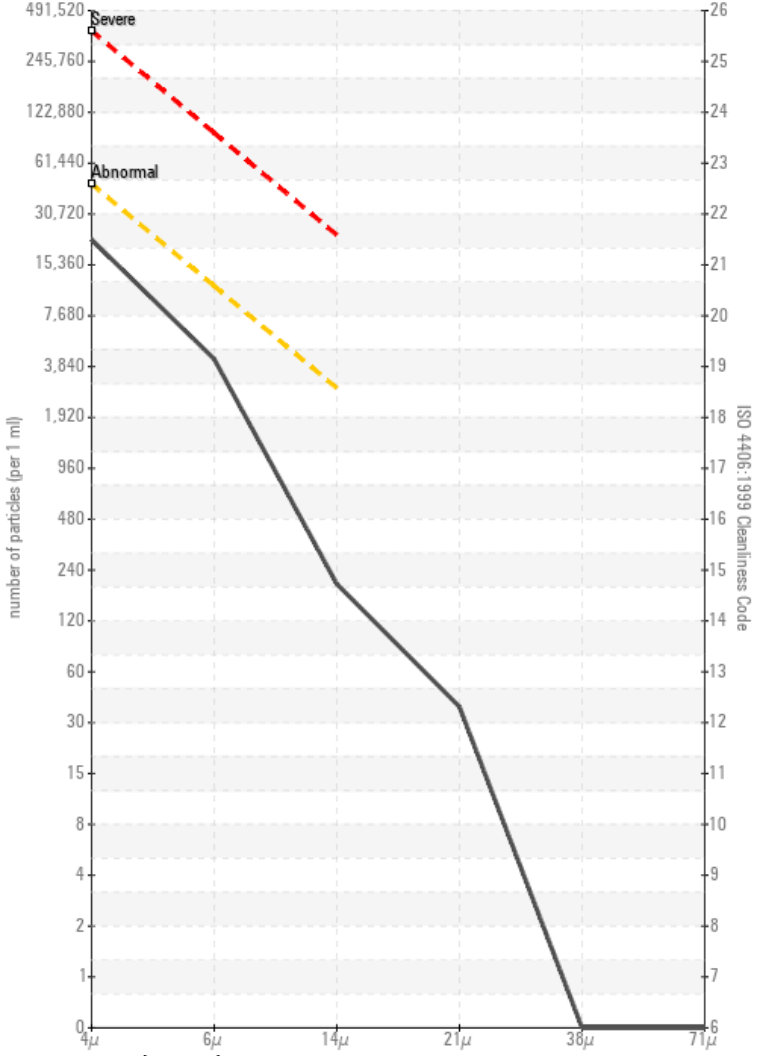
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

