



# CONSTRUCTION EQUIPMENT

## TUCKER PAVING VOLVO ECR145E 315117 - HYDRAULIC SYSTEM



**Sample No:** VCP432104  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** TUCKER PAVING



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### SAMPLE INFORMATION

Sample Number	<b>VCP432104</b>	VCP415946	VCP390726	VCP374618
Sample Date	<b>08 Nov 2023</b>	13 Jun 2023	04 Nov 2022	10 Jun 2022
Machine Hours	<b>3320</b>	2778	2053	1521
Oil Hours	<b>0</b>	0	2053	1500
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL



### OIL CONDITION

Visc @ 40°C	cSt	<b>41.2</b>	41.2	42.2	42.6
Acid Number (AN)	mg KOH/g	<b>0.44</b>	0.46	0.60	0.59



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>12345</b>	97217	8153	9757
Particles >6µm		<b>3916</b>	32570	1540	2439
Particles >14µm		<b>485</b>	1781	98	197
ISO 4406:1999 (c)		<b>21/19/16</b>	24/22/18	20/18/14	20/18/15
Silicon	ppm	<b>6</b>	6	8	7
Sodium	ppm	<b>2</b>	<1	<1	0
Potassium	ppm	<b>0</b>	0	0	<1



### WEAR METALS

Iron	ppm	<b>0</b>	2	3	2
Copper	ppm	<b>18</b>	16	26	22
Lead	ppm	<b>0</b>	0	<1	1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	2	<1	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	0
Molybdenum	ppm	<b>3</b>	6	<1	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	0
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>90</b>	99	77	77
Magnesium	ppm	<b>12</b>	11	0	<1
Zinc	ppm	<b>431</b>	464	471	489
Phosphorus	ppm	<b>341</b>	380	384	358
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</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.

**Depot:** VOLVO0093  
**Unique No:** 10776129  
**Signed:** Wes Davis  
**Report Date:** 07 Dec 2023

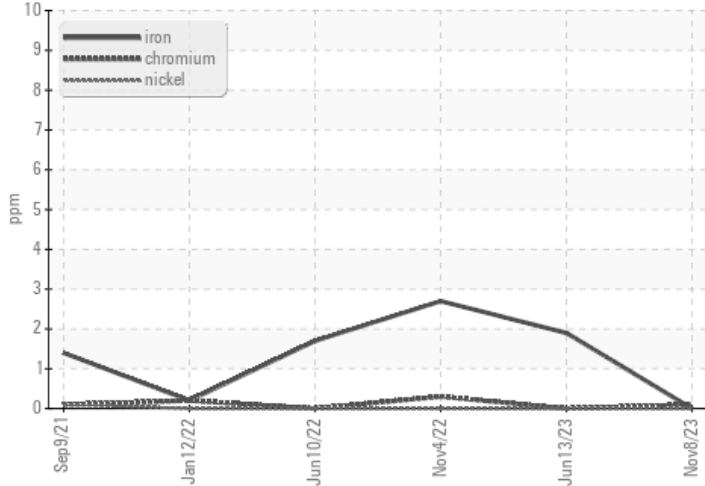


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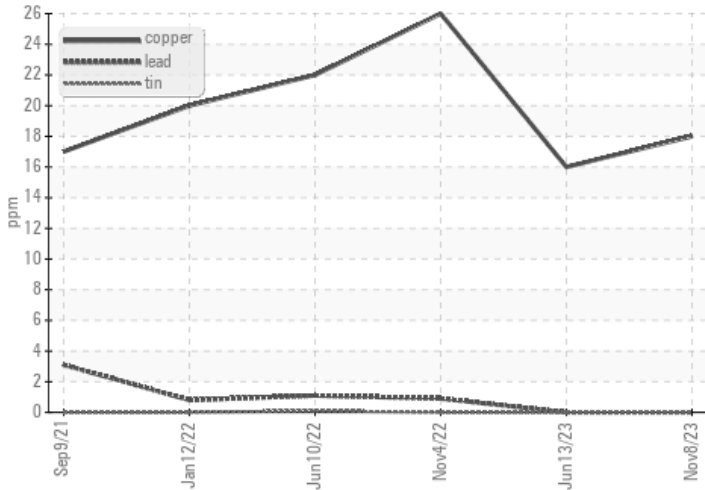


## VOLVO GRAPHS

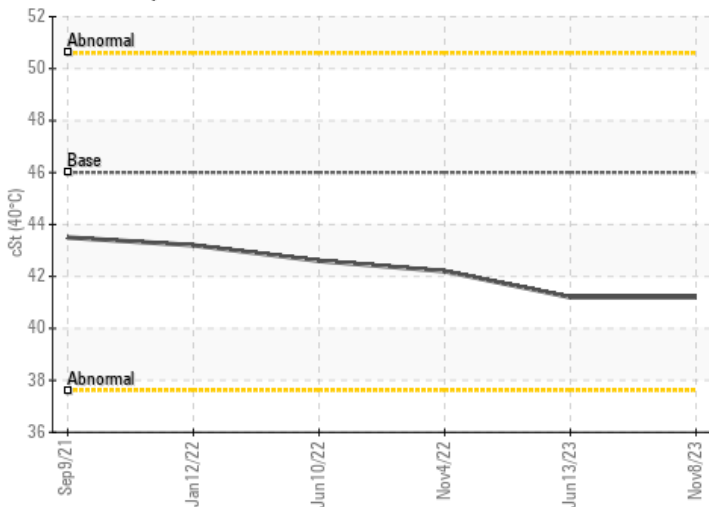
### Ferrous Alloys



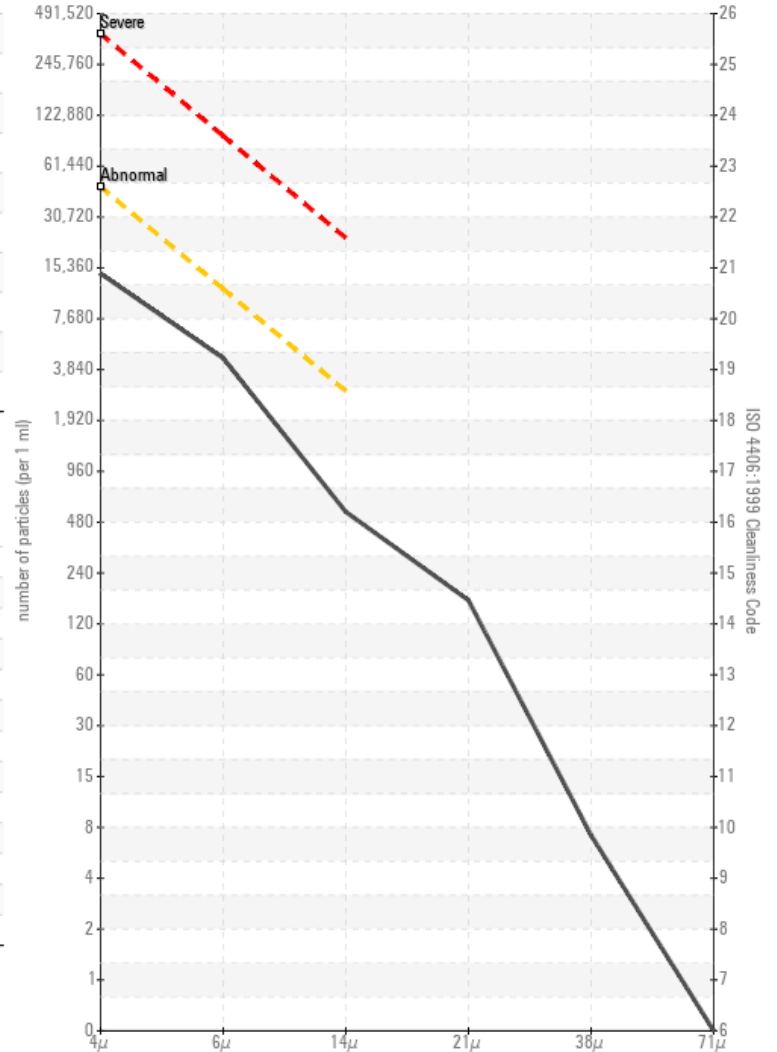
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

