



# CONSTRUCTION EQUIPMENT

## TUCKER PAVING VOLVO A25G 742081 - HYDRAULIC SYSTEM



**Sample No:** VCP451176  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** TUCKER PAVING



### SAMPLE INFORMATION

Sample Number	<b>VCP451176</b>	VCP424505	VCP390663	VCP360646
Sample Date	<b>26 Apr 2024</b>	14 Jul 2023	24 Oct 2022	21 Apr 2022
Machine Hours	<b>8996</b>	7964	7007	6063
Oil Hours	<b>0</b>	4000	1500	2000
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.1</b>	44.4	43.3	43.4
Acid Number (AN)	mg KOH/g	<b>0.34</b>	0.46	1.15	1.01

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>1776</b>	217	32640	37911
Particles >6µm		<b>214</b>	39	13148	11701
Particles >14µm		<b>12</b>	1	1517	1245
ISO 4406:1999 (c)		<b>18/15/11</b>	15/12/7	22/21/18	22/21/17
Silicon	ppm	<b>4</b>	8	10	10
Sodium	ppm	<b>2</b>	<1	1	1
Potassium	ppm	<b>1</b>	1	2	2

### 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>8</b>	16	8	5
Copper	ppm	<b>4</b>	10	184	112
Lead	ppm	<b>2</b>	4	<1	<1
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>2</b>	5	3	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>1</b>	1	0	<1
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>&lt;1</b>	<1	2	<1
Manganese	ppm	<b>0</b>	0	1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>223</b>	326	3728	3911
Magnesium	ppm	<b>7</b>	10	11	12
Zinc	ppm	<b>510</b>	577	1543	1617
Phosphorus	ppm	<b>418</b>	454	1225	1316
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>1</b>	3	111	142

**Depot:** VOLVO0093  
**Unique No:** 11031427  
**Signed:** Wes Davis  
**Report Date:** 16 May 2024

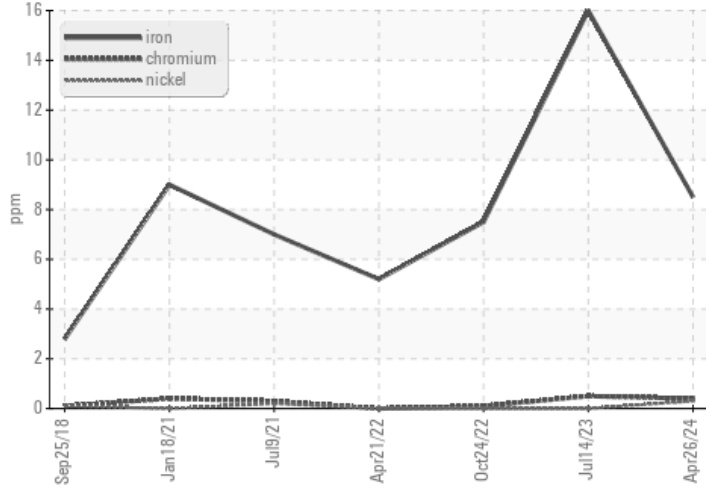


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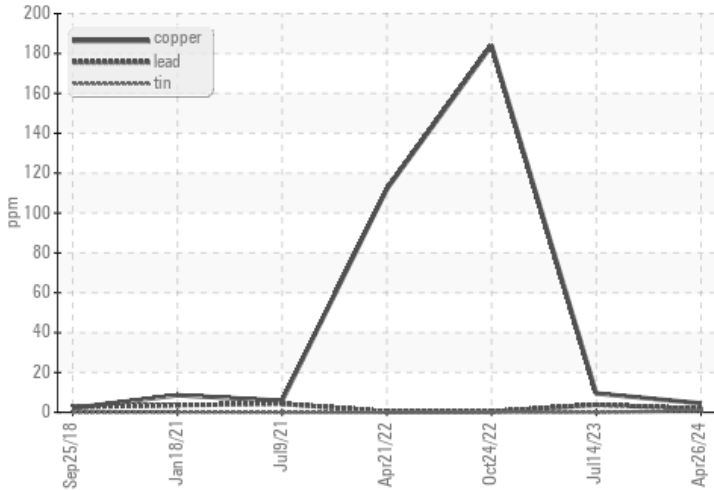


## GRAPHS

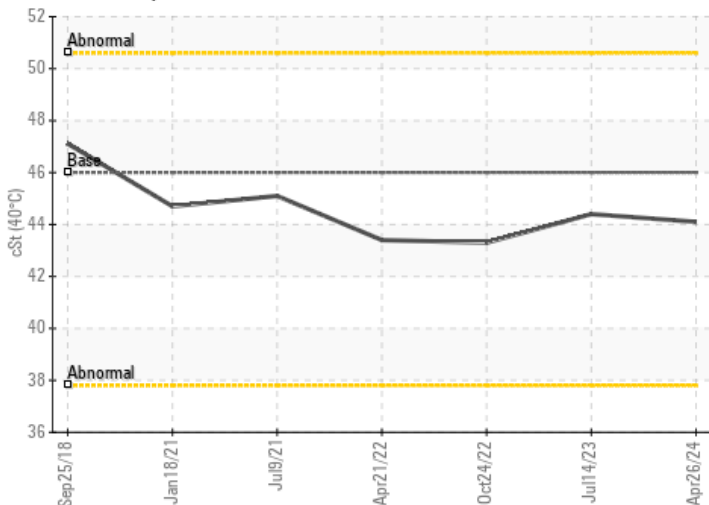
### Ferrous Alloys



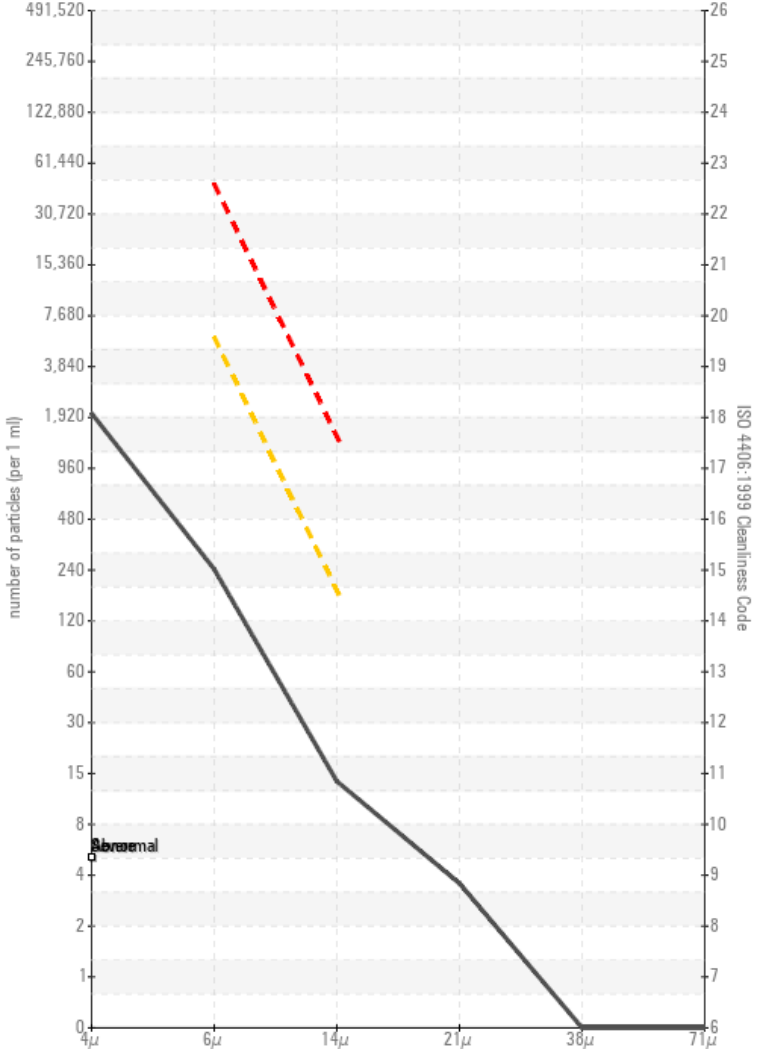
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

