



# CONSTRUCTION EQUIPMENT

## 673173 TUCKER PAVING VOLVO EC380E 314427 - HYDRAULIC SYSTEM



**Sample No:** VCP441673  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 673173 TUCKER PAVING



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: JOHN FARDELLA  
 john.fardella@altg.com  
 T: (813)630-0077  
 F: (813)630-2233



### SAMPLE INFORMATION

Sample Number	<b>VCP441673</b>	VCP422487	VCP410341	VCP376526
Sample Date	<b>07 Feb 2024</b>	09 Aug 2023	13 Mar 2023	04 Aug 2022
Machine Hours	<b>4527</b>	4011	3403	2895
Oil Hours	<b>500</b>	2000	1403	1500
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.2</b>	41.1	41.1	41.8
Acid Number (AN)	mg KOH/g	<b>0.71</b>	0.51	0.42	0.45



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>4519</b>	4166	11173	10566
Particles >6µm		<b>122</b>	542	1064	1463
Particles >14µm		<b>7</b>	45	23	63
ISO 4406:1999 (c)		<b>19/14/10</b>	19/16/13	21/17/12	21/18/13
Silicon	ppm	<b>3</b>	4	4	3
Sodium	ppm	<b>2</b>	0	0	0
Potassium	ppm	<b>2</b>	<1	<1	1



### WEAR METALS

Iron	ppm	<b>3</b>	5	3	2
Copper	ppm	<b>16</b>	17	15	13
Lead	ppm	<b>&lt;1</b>	<1	0	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	0	<1	<1
Chromium	ppm	<b>2</b>	5	4	3
Molybdenum	ppm	<b>0</b>	<1	0	0
Nickel	ppm	<b>&lt;1</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	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>101</b>	66	63	57
Magnesium	ppm	<b>4</b>	<1	4	0
Zinc	ppm	<b>483</b>	430	505	459
Phosphorus	ppm	<b>372</b>	336	394	351
Barium	ppm	<b>0</b>	0	0	0
Boron	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.

**Depot:** VOLVO0093  
**Unique No:** 10901136  
**Signed:** Wes Davis  
**Report Date:** 29 Feb 2024

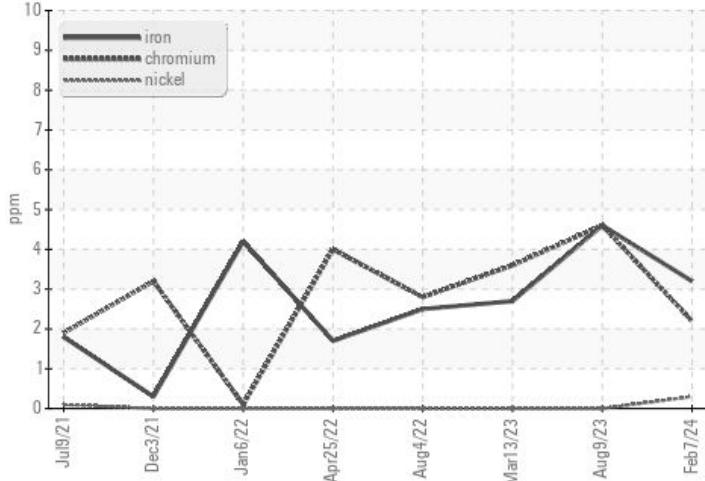


# CONSTRUCTION EQUIPMENT

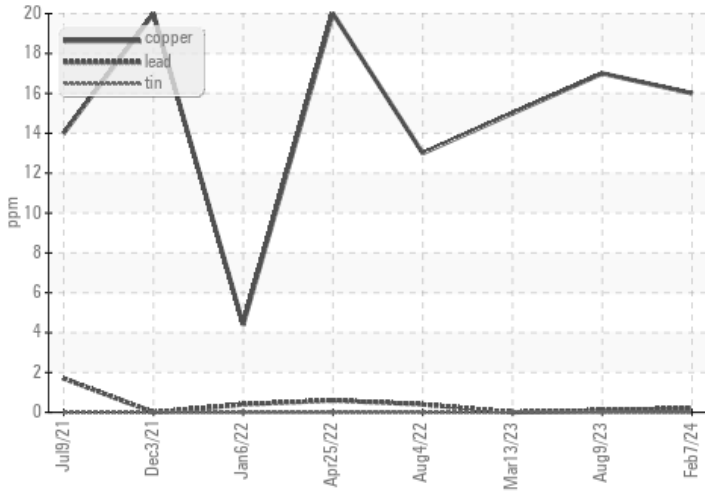


## VOLVO GRAPHS

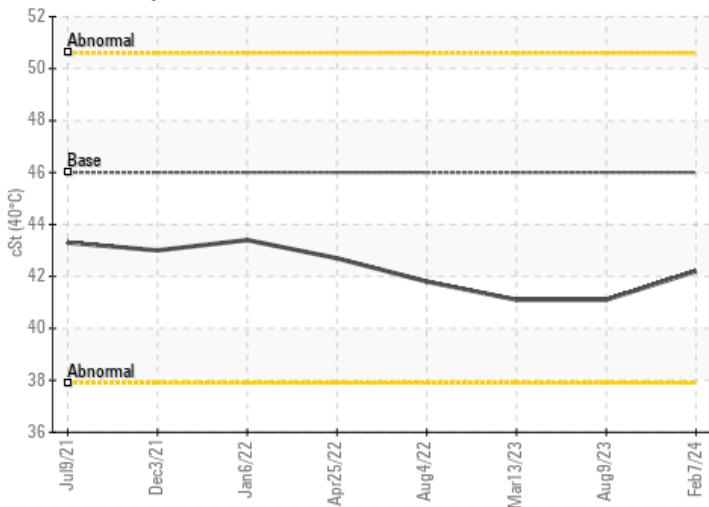
### Ferrous Alloys



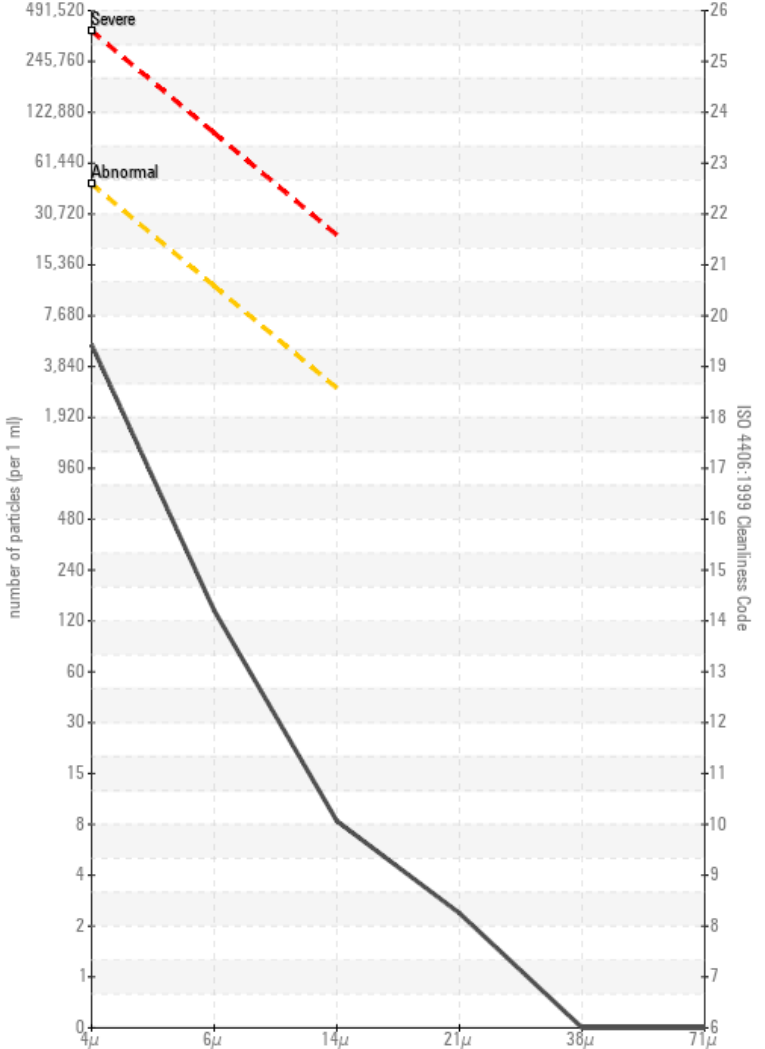
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

