



# CONSTRUCTION EQUIPMENT

## TUCKER PAVING - BRAKE COOLING SYSTEM



**Sample No:** VCP454950  
**Oil Type:** VOLVO WB 102  
**Job No:** TUCKER PAVING



### SAMPLE INFORMATION

Sample Number	<b>VCP454950</b>	VCP385974	VCP330245	VCP300038
Sample Date	<b>10 Apr 2024</b>	12 Oct 2022	23 Feb 2022	25 Feb 2021
Machine Hours	<b>7317</b>	6141	5157	4087
Oil Hours	<b>0</b>	2000	1000	4087
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	ABNORMAL

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: KENNY HANEY  
 khaney@flaglerce.com  
 T: (813)630-0077  
 F: (813)630-2233



### OIL CONDITION

Visc @ 40°C	cSt	<b>54.0</b>	48.8	47.9	53.5
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>14</b>	9	13	8
Sodium	ppm	<b>1</b>	5	3	3
Potassium	ppm	<b>2</b>	<1	0	<1

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the fluid. The condition of the fluid is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>11</b>	14	8	24
Copper	ppm	<b>28</b>	154	111	▲ 241
Lead	ppm	<b>&lt;1</b>	<1	5	<1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>2</b>	2	2	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	1	1	2
Nickel	ppm	<b>&lt;1</b>	<1	0	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	1
Manganese	ppm	<b>&lt;1</b>	<1	<1	1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>2231</b>	3179	3422	3097
Magnesium	ppm	<b>9</b>	15	19	23
Zinc	ppm	<b>1051</b>	1328	1333	1273
Phosphorus	ppm	<b>832</b>	1107	1179	1183
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>35</b>	77	82	52

**Depot:** VOLVO0093  
**Unique No:** 11083361  
**Signed:** Sean Felton  
**Report Date:** 18 Jun 2024

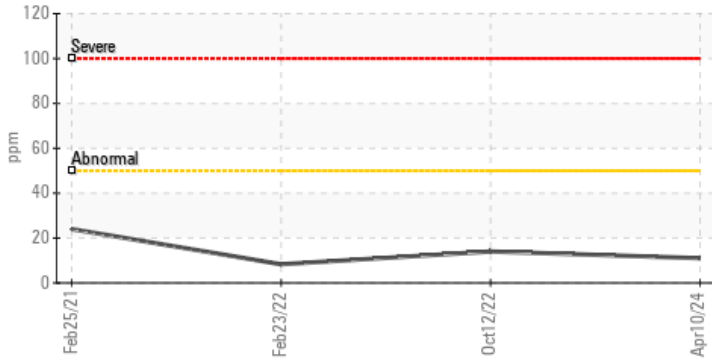


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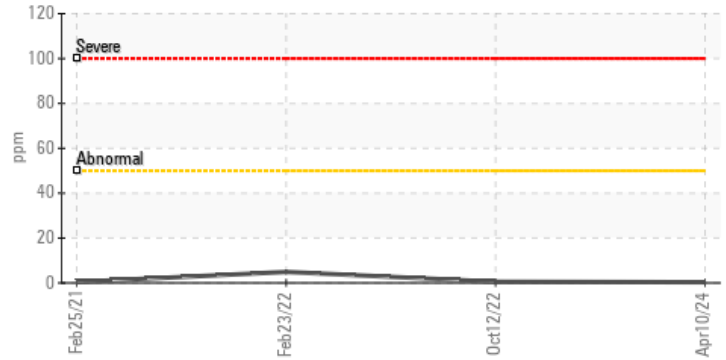


## GRAPHS

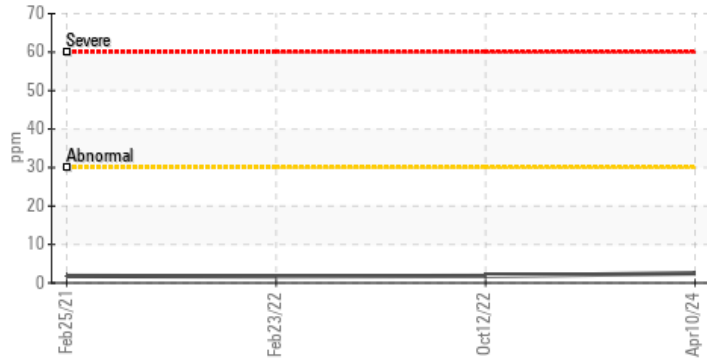
### Iron (ppm)



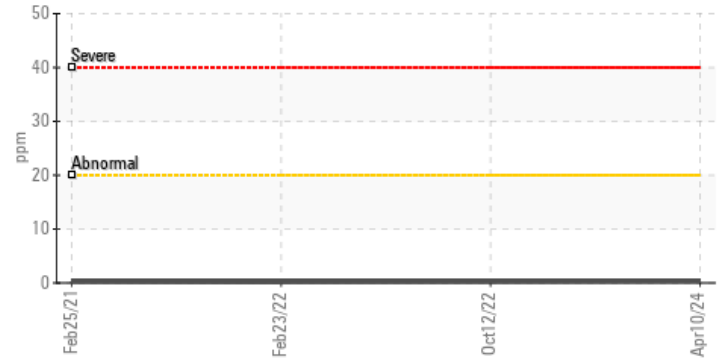
### Lead (ppm)



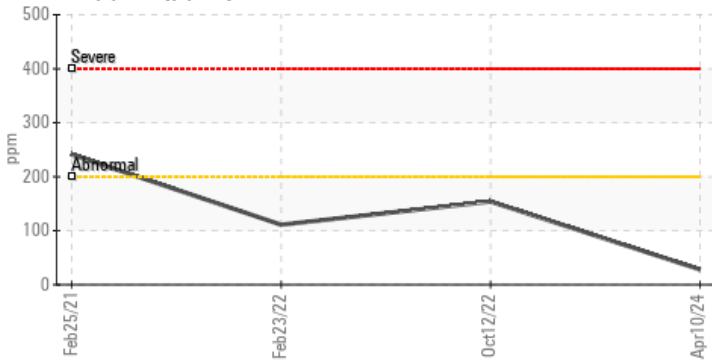
### Aluminum (ppm)



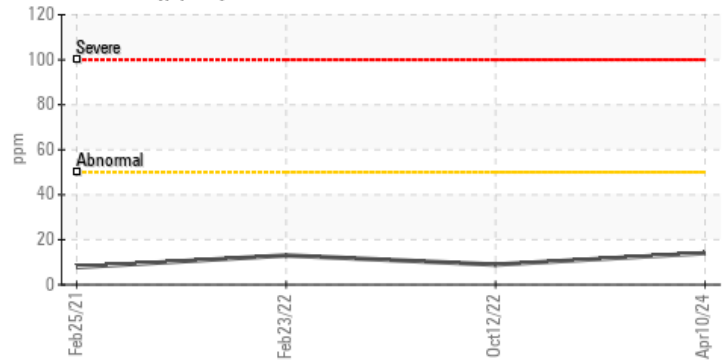
### Chromium (ppm)



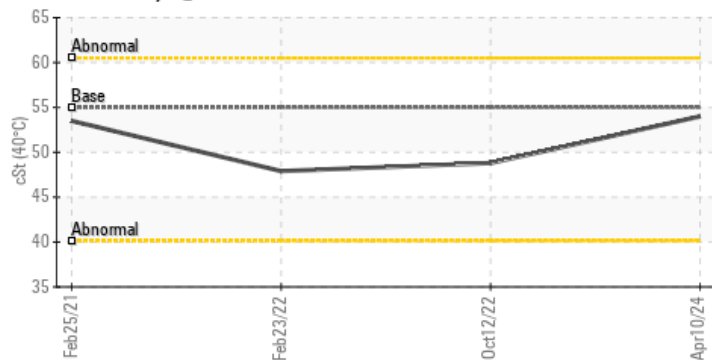
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

