



# CONSTRUCTION EQUIPMENT

SWA310208 WOOD MEAD VOLVO A40G 341583 - WET DISC BRAKE



**Sample No:** VCP416247  
**Oil Type:** VOLVO WET BRAKE TRANSAXLE OIL  
**Job No:** SWA310208 WOOD MEAD



## SAMPLE INFORMATION

Sample Number	<b>VCP416247</b>	VCP394381	VCP310725	VCP243924
Sample Date	<b>13 Jul 2023</b>	31 Jan 2023	17 May 2021	31 Jul 2020
Machine Hours	<b>8238</b>	8449	7230	6059
Oil Hours	<b>0</b>	0	3000	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	NORMAL

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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## OIL CONDITION

Visc @ 40°C	cSt	<b>43.1</b>	42.7	40.7	40.5
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## CONTAMINATION

Silicon	ppm	<b>14</b>	20	20	17
Sodium	ppm	<b>3</b>	5	6	5
Potassium	ppm	<b>0</b>	0	<1	<1



## WEAR METALS

Iron	ppm	<b>17</b>	40	40	21
Copper	ppm	<b>133</b>	146	282	195
Lead	ppm	<b>0</b>	1	1	<1
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>2</b>	2	0	<1
Chromium	ppm	<b>&lt;1</b>	1	1	<1
Molybdenum	ppm	<b>1</b>	1	<1	<1
Nickel	ppm	<b>&lt;1</b>	2	4	3
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	1	2	1
Vanadium	ppm	<b>0</b>	0	<1	0



## ADDITIVES

Calcium	ppm	<b>3948</b>	3881	3743	3970
Magnesium	ppm	<b>16</b>	19	7	10
Zinc	ppm	<b>1624</b>	1575	1466	1347
Phosphorus	ppm	<b>1274</b>	1191	1277	1275
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>112</b>	132	186	113

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO2990  
**Unique No:** 10563019  
**Signed:** Don Baldrige  
**Report Date:** 20 Jul 2023

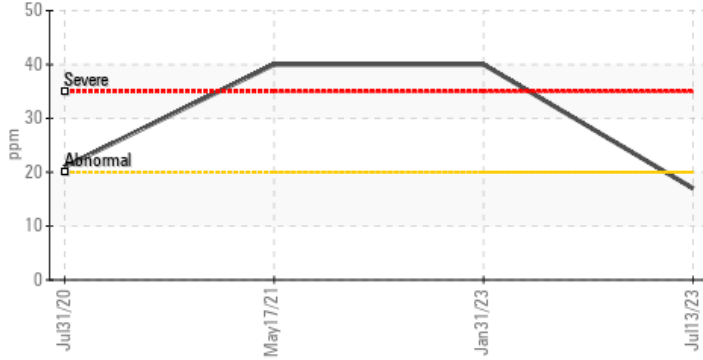


# CONSTRUCTION EQUIPMENT

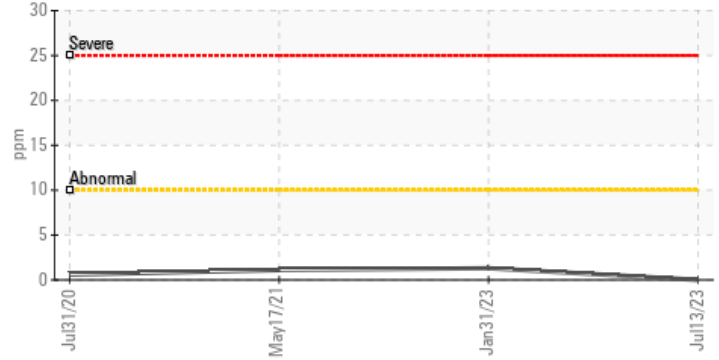


## GRAPHS

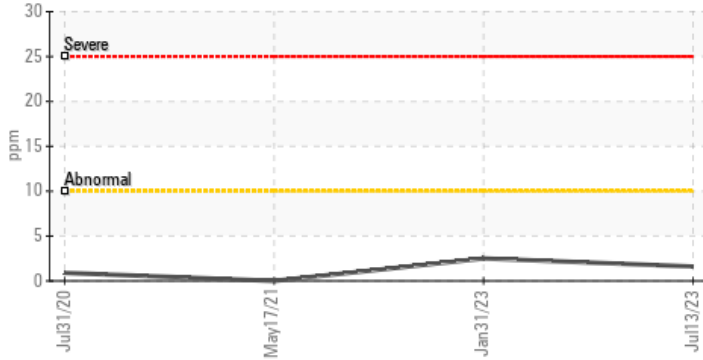
### Iron (ppm)



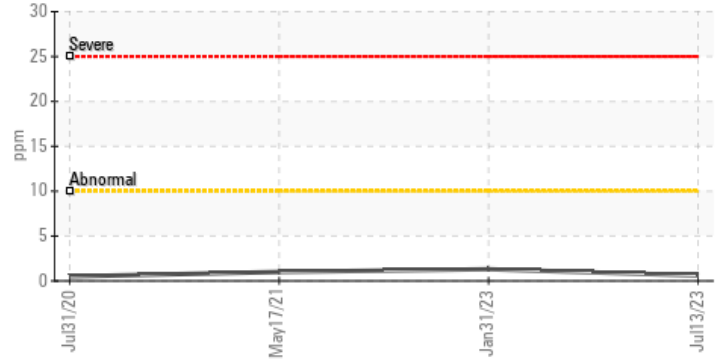
### Lead (ppm)



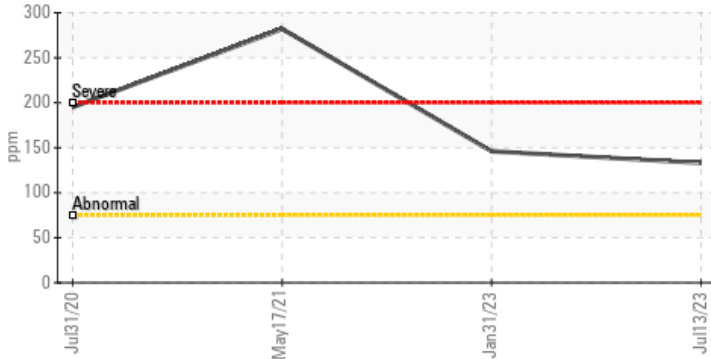
### Aluminum (ppm)



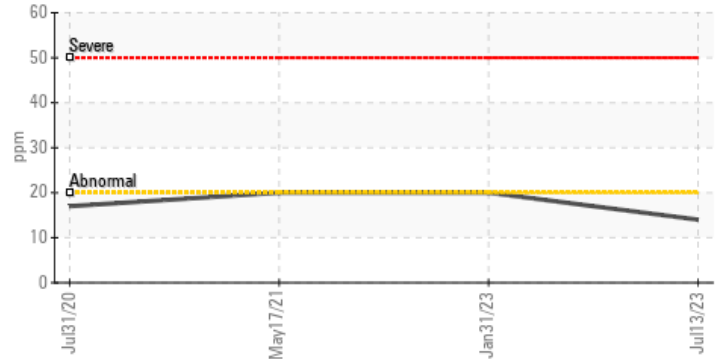
### Chromium (ppm)



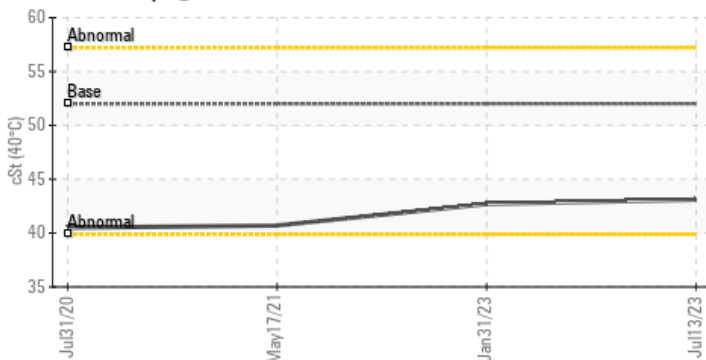
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

