



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352199 - WET DISC BRAKE



**Sample No:** VCP396992  
**Oil Type:** MOBIL MOBILGARD 424  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP396992</b>	VCP442544	VCP396512	VCP404834
Sample Date	<b>12 Mar 2024</b>	29 Nov 2023	25 Sep 2023	19 Jul 2023
Machine Hours	<b>7031</b>	6652	6129	5644
Oil Hours	<b>379</b>	2035	1532	1047
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>45.6</b>	42.5	42.3	42.9
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>18</b>	18	16	17
Sodium	ppm	<b>4</b>	6	3	6
Potassium	ppm	<b>2</b>	0	2	<1

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. The copper level is abnormal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>27</b>	29	22	28
Copper	ppm	<b>174</b>	231	239	202
Lead	ppm	<b>&lt;1</b>	4	<1	2
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>2</b>	<1	0	0
Chromium	ppm	<b>1</b>	<1	<1	1
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	<1
Nickel	ppm	<b>5</b>	5	6	5
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	1	1	1
Vanadium	ppm	<b>&lt;1</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>3401</b>	3219	2881	2997
Magnesium	ppm	<b>13</b>	0	8	14
Zinc	ppm	<b>1389</b>	1241	1301	1289
Phosphorus	ppm	<b>1113</b>	1204	1177	1126
Barium	ppm	<b>0</b>	0	1	0
Boron	ppm	<b>101</b>	113	86	103

**Depot:** SCHGRE  
**Unique No:** 10938196  
**Signed:** Don Baldrige  
**Report Date:** 22 Mar 2024

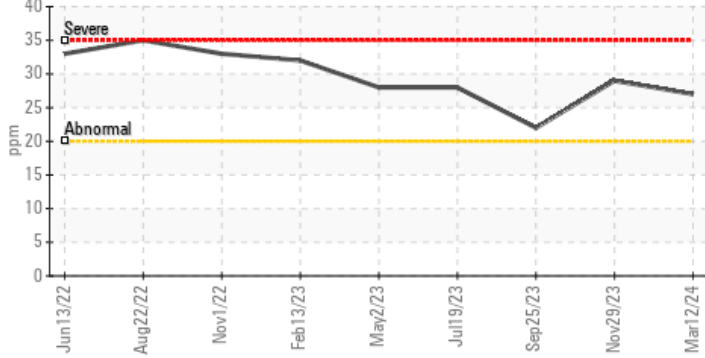


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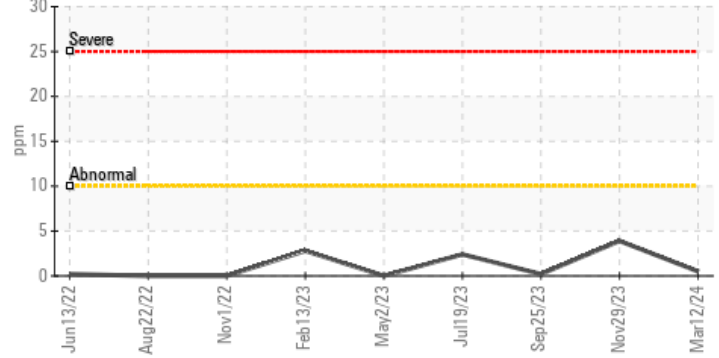


## VOLVO GRAPHS

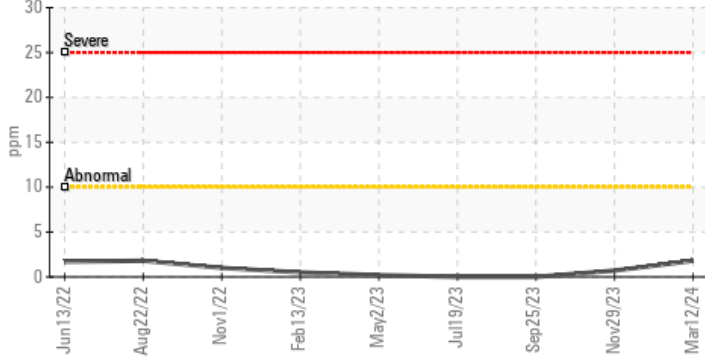
### ▲ Iron (ppm)



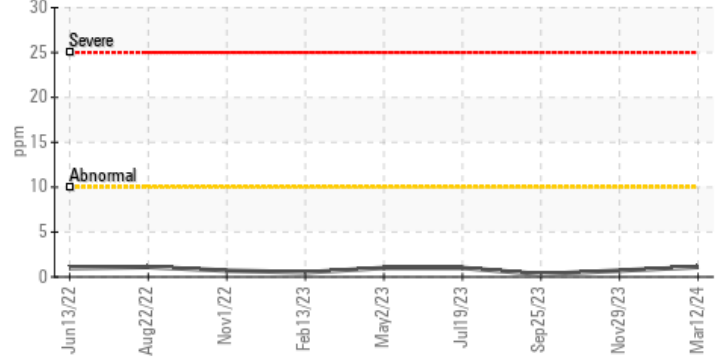
### Lead (ppm)



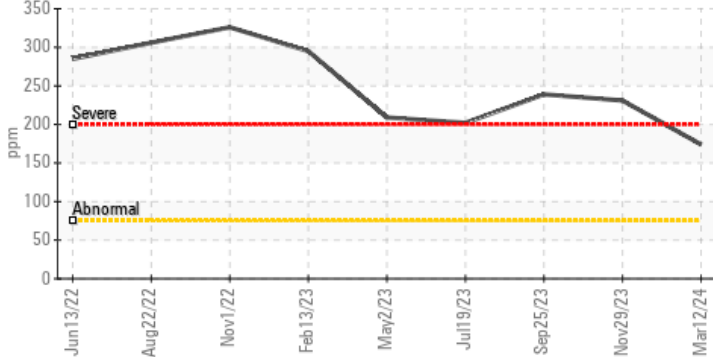
### Aluminum (ppm)



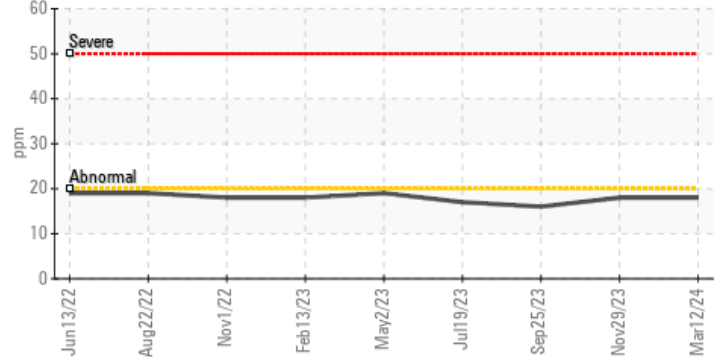
### Chromium (ppm)



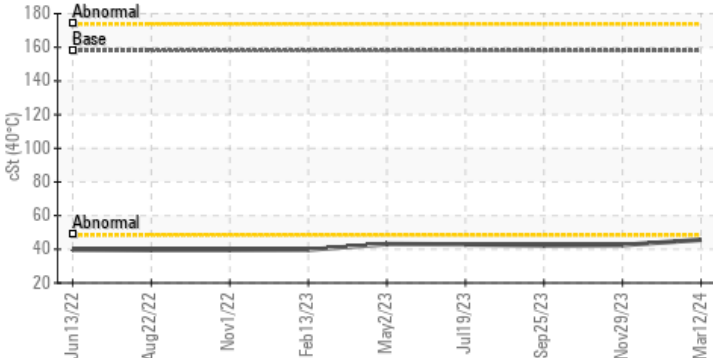
### ▲ Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

