



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352199 - WET DISC BRAKE



**Sample No:** VCP442544  
**Oil Type:** MOBIL MOBILGARD 424  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP442544</b>	VCP396512	VCP404834	VCP385114
Sample Date	<b>29 Nov 2023</b>	25 Sep 2023	19 Jul 2023	02 May 2023
Machine Hours	<b>6652</b>	6129	5644	5149
Oil Hours	<b>2035</b>	1532	1047	1025
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

**SCHILDBERG CONSTRUCTION COMPANY**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.5</b>	42.3	42.9	43.1
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	█ <b>18</b>	█ 16	█ 17	█ 19
Sodium	ppm	█ <b>6</b>	█ 3	█ 6	█ 6
Potassium	ppm	█ <b>0</b>	█ 2	█ <1	█ 0

### Diagnosis

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. 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>29</b>	▲ 22	▲ 28	▲ 28
Copper	ppm	▲ <b>231</b>	▲ 239	▲ 202	▲ 209
Lead	ppm	█ <b>4</b>	█ <1	█ 2	█ 0
Tin	ppm	█ <b>0</b>	█ 0	█ <1	█ 0
Aluminum	ppm	█ <b>&lt;1</b>	█ 0	█ 0	█ <1
Chromium	ppm	█ <b>&lt;1</b>	█ <1	█ 1	█ 1
Molybdenum	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ <1
Nickel	ppm	█ <b>5</b>	█ 6	█ 5	█ 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	█ 2
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	█ <b>3219</b>	█ 2881	█ 2997	█ 3235
Magnesium	ppm	█ <b>0</b>	█ 8	█ 14	█ 15
Zinc	ppm	█ <b>1241</b>	█ 1301	█ 1289	█ 1412
Phosphorus	ppm	█ <b>1204</b>	█ 1177	█ 1126	█ 1220
Barium	ppm	█ <b>0</b>	█ 1	█ 0	█ 0
Boron	ppm	█ <b>113</b>	█ 86	█ 103	█ 93

**Depot:** SCHGRE  
**Unique No:** 10780771  
**Signed:** Don Baldrige  
**Report Date:** 14 Dec 2023

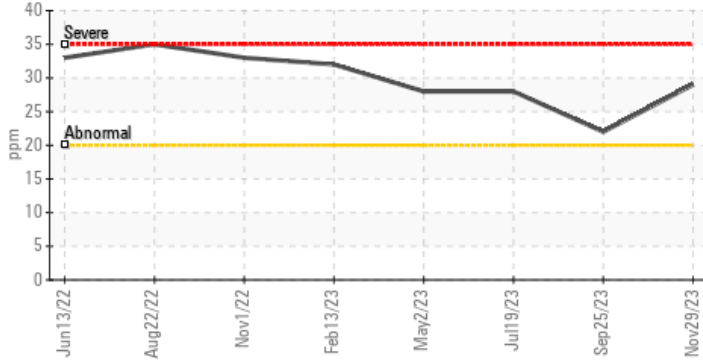


# CONSTRUCTION EQUIPMENT

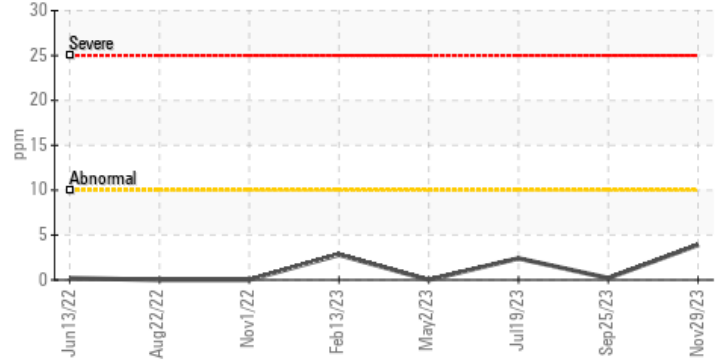


## VOLVO GRAPHS

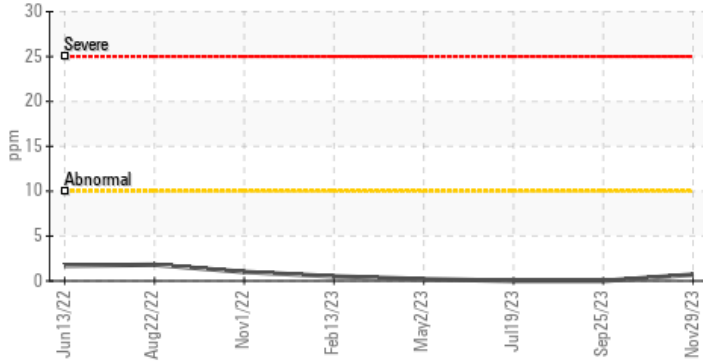
▲ Iron (ppm)



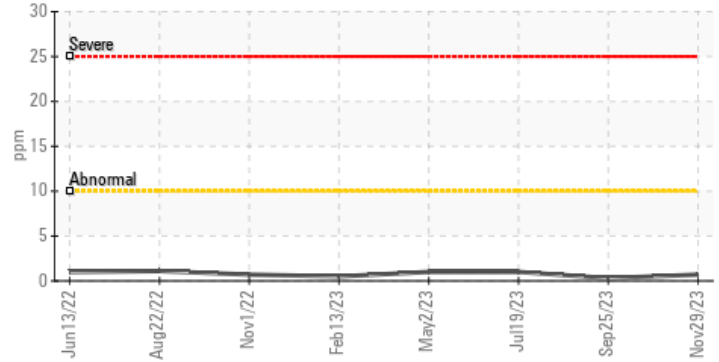
Lead (ppm)



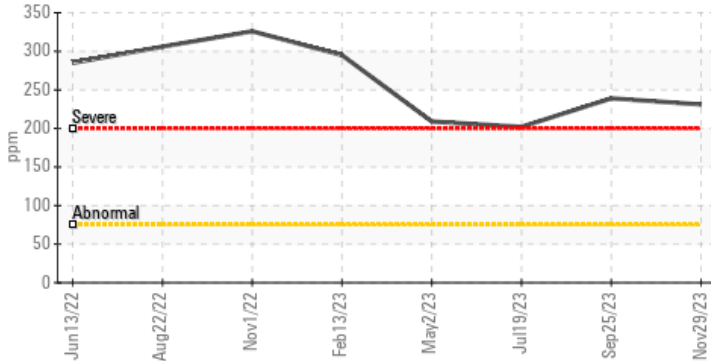
Aluminum (ppm)



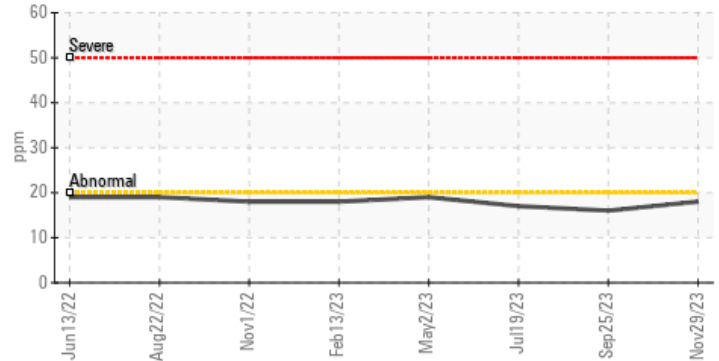
Chromium (ppm)



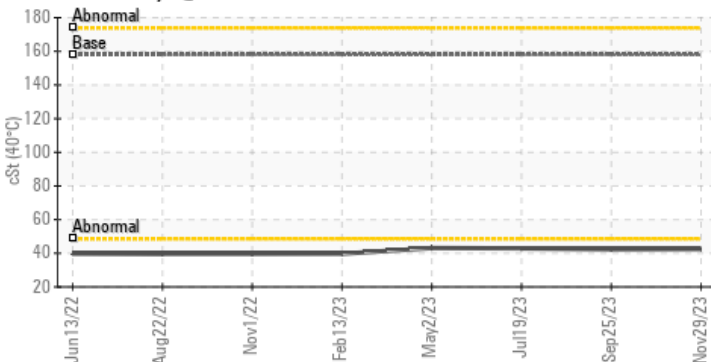
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

