



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342373 - WET DISC BRAKE



**Sample No:** VCP445745  
**Oil Type:** MOBIL MOBILFLUID 424  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP445745</b>	VCP341876	VCP400063	VCP404854
Sample Date	<b>29 Nov 2023</b>	09 Oct 2023	19 Jul 2023	02 May 2023
Machine Hours	<b>12310</b>	11957	11379	10860
Oil Hours	<b>1965</b>	1612	1034	515
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>47.8</b>	47.6	49.3	48.7
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>15</b>	16	16	16
Sodium	ppm	<b>4</b>	2	6	6
Potassium	ppm	<b>0</b>	2	0	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>23</b>	25	24	22
Copper	ppm	<b>92</b>	150	118	121
Lead	ppm	<b>3</b>	0	1	0
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>1</b>	1	<1	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	<1
Nickel	ppm	<b>4</b>	4	4	3
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	1	1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>2247</b>	3019	2914	3138
Magnesium	ppm	<b>0</b>	11	15	15
Zinc	ppm	<b>1112</b>	1353	1249	1359
Phosphorus	ppm	<b>906</b>	1162	1072	1141
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>86</b>	103	103	90

**Depot:** SCHGRE  
**Unique No:** 10780772  
**Signed:** Don Baldrige  
**Report Date:** 14 Dec 2023

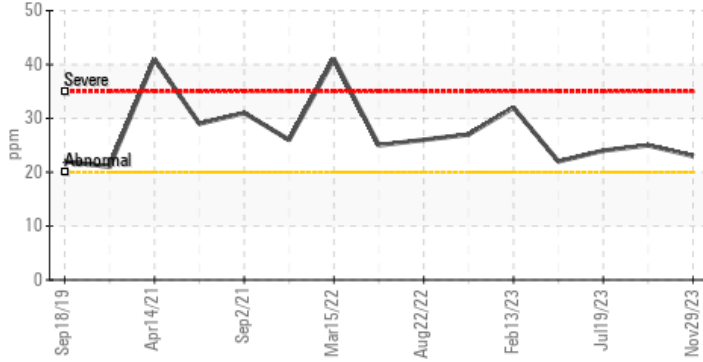


# CONSTRUCTION EQUIPMENT

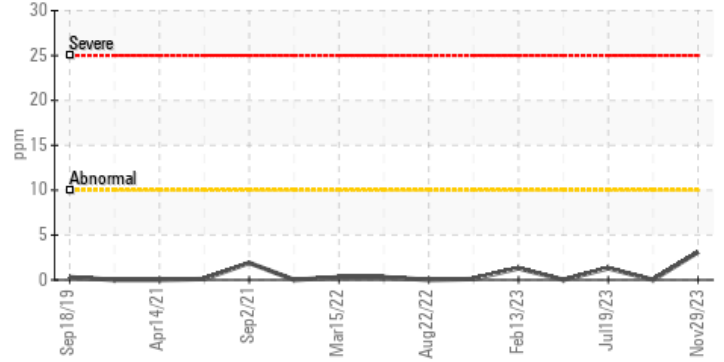


## GRAPHS

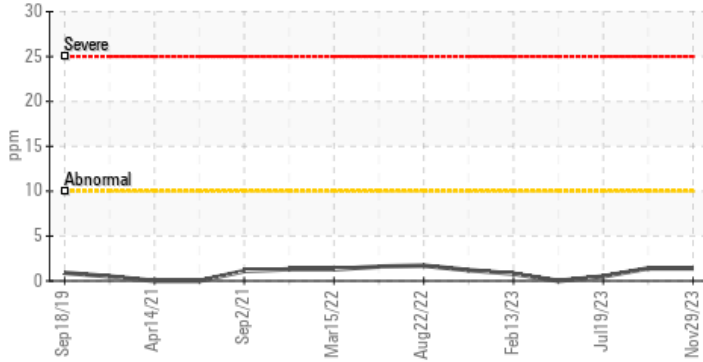
▲ Iron (ppm)



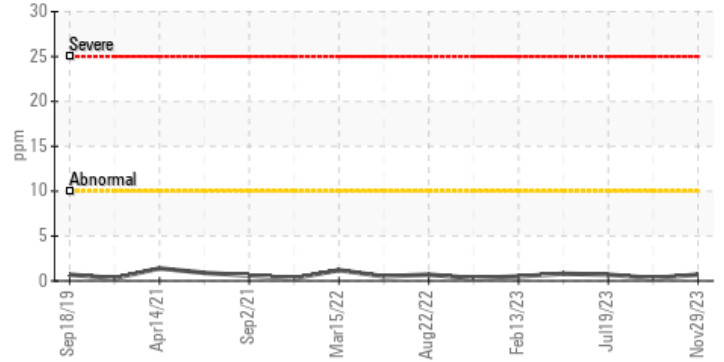
Lead (ppm)



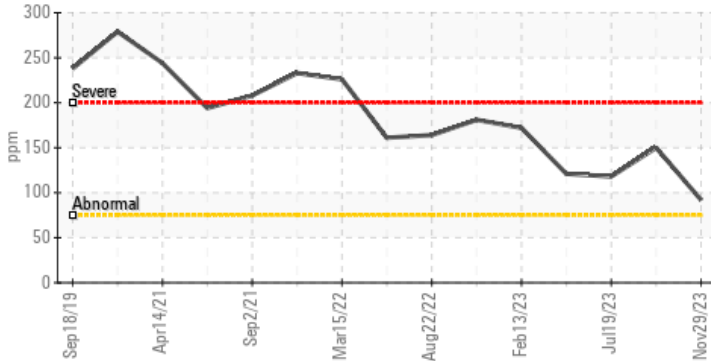
Aluminum (ppm)



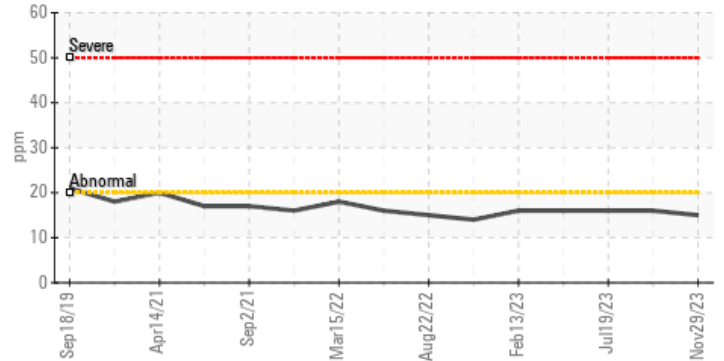
Chromium (ppm)



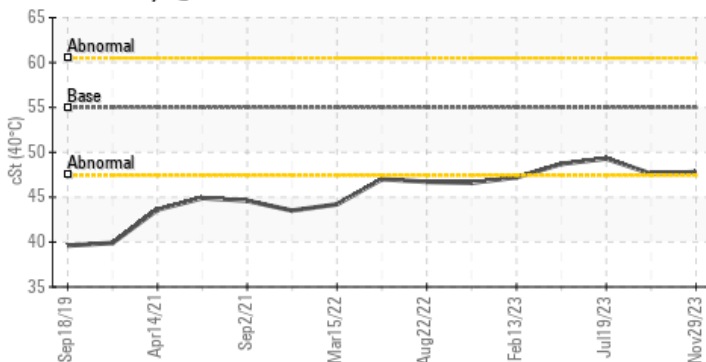
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

