



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342252 - DIESEL ENGINE



**Sample No:** VCP441994  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP441994</b>	VCP440659	VCP398094	VCP406824
Sample Date	<b>06 Feb 2024</b>	29 Nov 2023	30 Oct 2023	25 Sep 2023
Machine Hours	<b>11740</b>	11431	11266	11035
Oil Hours	<b>309</b>	165	231	168
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	12.9	12.86	12.8
Viscosity Index (VI)	Scale	---	---	130	---
Base Number (BN)	mg KOH/g	<b>6.6</b>	6.3	7.0	8.2
Oxidation (PA)	%	<b>60</b>	57	60	65

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>70</b>	65	68	57
Sulfation (PA)	%	<b>50</b>	49	50	52
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>0.3</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>10</b>	4	4	4
Sodium	ppm	<b>2</b>	3	3	2
Potassium	ppm	<b>2</b>	<1	1	0



### WEAR METALS

Iron	ppm	<b>5</b>	2	4	<1
Copper	ppm	<b>1</b>	0	<1	<1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>5</b>	4	3	2
Chromium	ppm	<b>&lt;1</b>	<1	0	0
Molybdenum	ppm	<b>189</b>	127	110	83
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1902</b>	1268	1329	1400
Magnesium	ppm	<b>1009</b>	672	669	595
Zinc	ppm	<b>1325</b>	878	894	853
Phosphorus	ppm	<b>1092</b>	705	736	741
Barium	ppm	<b>13</b>	0	0	0
Boron	ppm	<b>192</b>	147	119	85

**Depot:** SCHGRE  
**Unique No:** 10876039  
**Signed:** Wes Davis  
**Report Date:** 15 Feb 2024

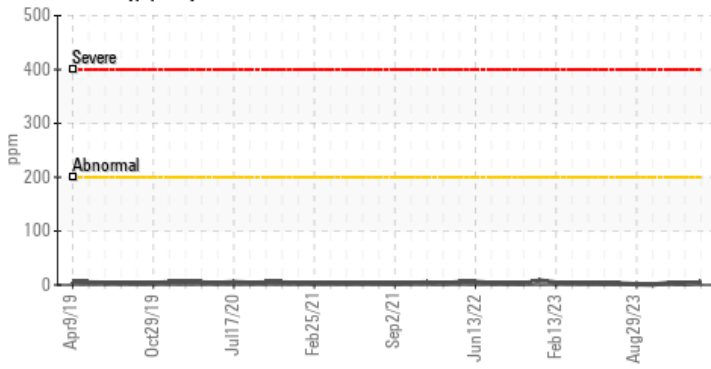


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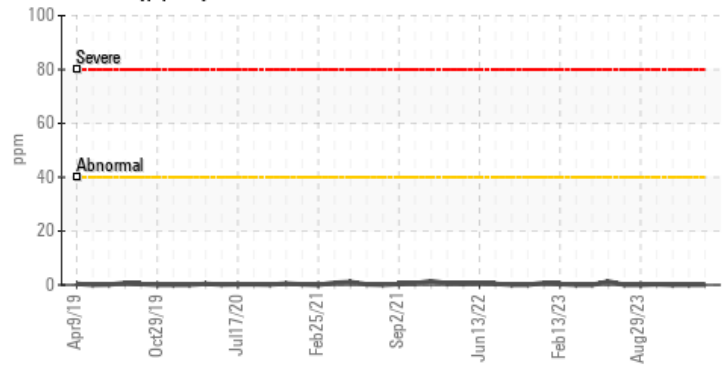


## GRAPHS

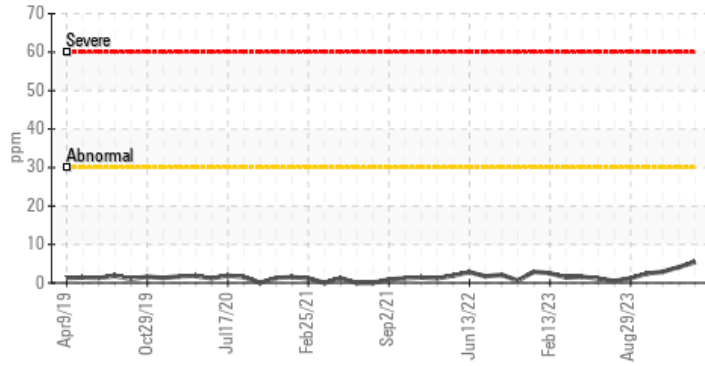
### Iron (ppm)



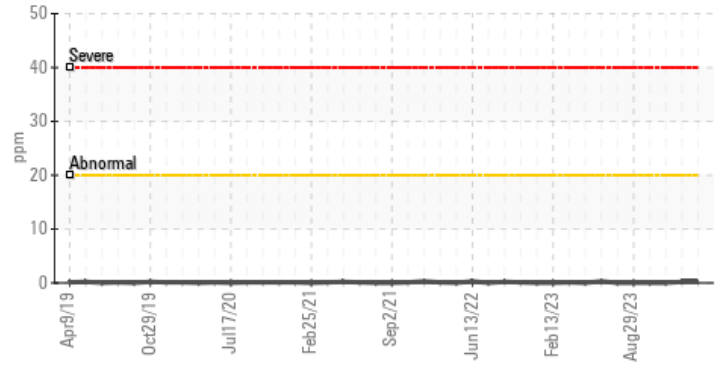
### Lead (ppm)



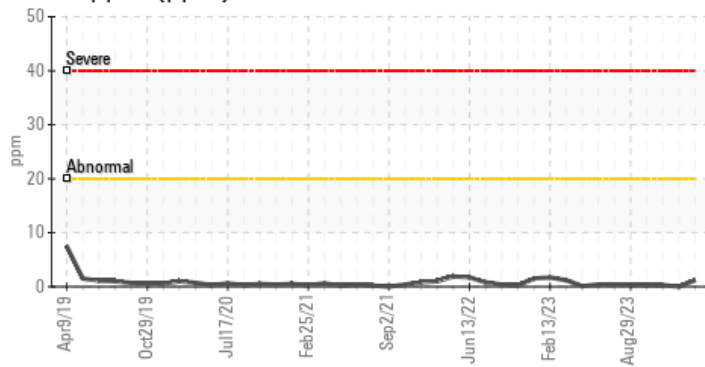
### Aluminum (ppm)



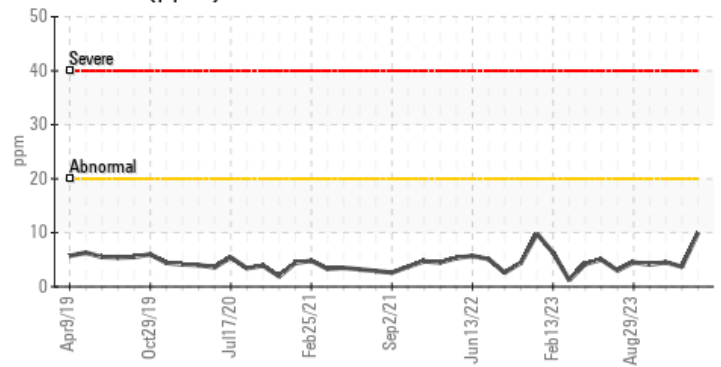
### Chromium (ppm)



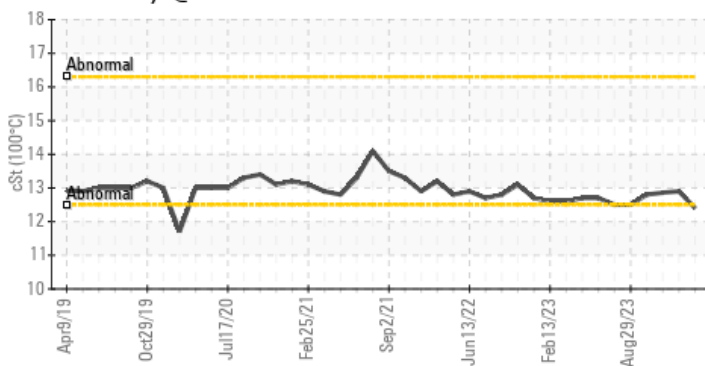
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

