



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352025 - DIESEL ENGINE



**Sample No:** VCP416984  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP416984</b>	VCP312934	VCP331586	VCP341883
Sample Date	<b>14 Feb 2024</b>	11 Dec 2023	06 Nov 2023	03 Oct 2023
Machine Hours	<b>10331</b>	10033	9810	9594
Oil Hours	<b>298</b>	92	216	323
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>12.9</b>	13.2	12.9	12.5
Base Number (BN)	mg KOH/g	<b>7.9</b>	7.2	6.9	8.5
Oxidation (PA)	%	<b>68</b>	58	62	70



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>62</b>	59	68	58
Sulfation (PA)	%	<b>54</b>	50	51	54
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	5	5	5
Sodium	ppm	<b>3</b>	1	2	3
Potassium	ppm	<b>2</b>	2	<1	1



### WEAR METALS

Iron	ppm	<b>5</b>	1	<1	4
Copper	ppm	<b>&lt;1</b>	0	<1	<1
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>4</b>	3	3	4
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>77</b>	106	115	86
Nickel	ppm	<b>2</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	0	0
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1251</b>	1259	1327	1812
Magnesium	ppm	<b>501</b>	602	693	685
Zinc	ppm	<b>790</b>	821	931	1106
Phosphorus	ppm	<b>634</b>	753	715	941
Barium	ppm	<b>34</b>	0	0	0
Boron	ppm	<b>81</b>	122	119	85

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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 acceptable for the time in service.

**Depot:** SCHGRE  
**Unique No:** 10898194  
**Signed:** Don Baldrige  
**Report Date:** 27 Feb 2024

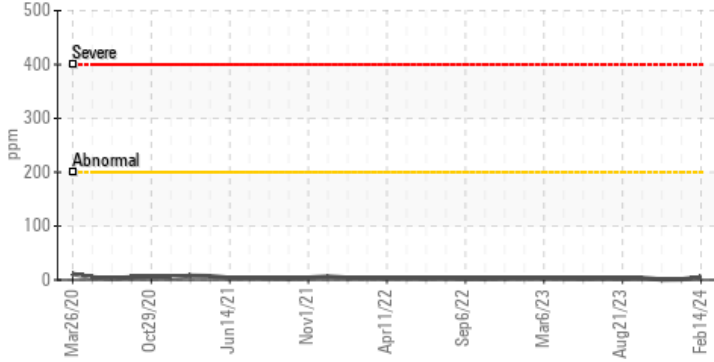


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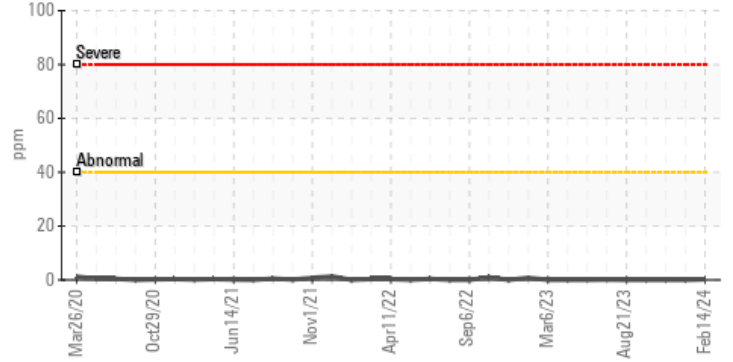


## GRAPHS

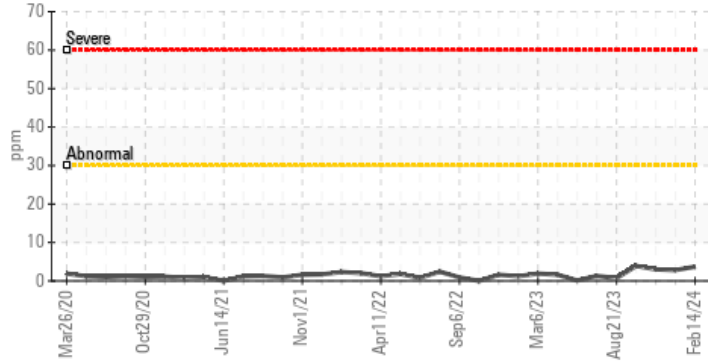
### Iron (ppm)



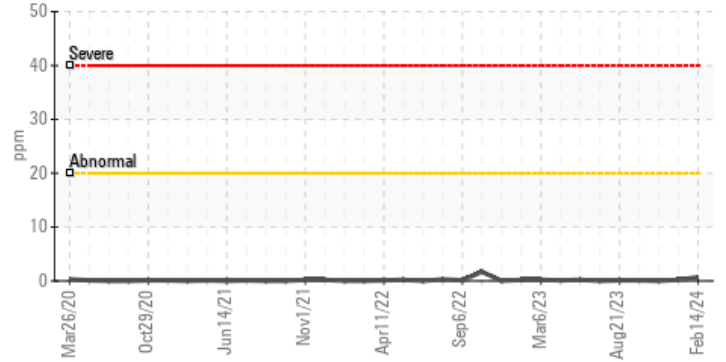
### Lead (ppm)



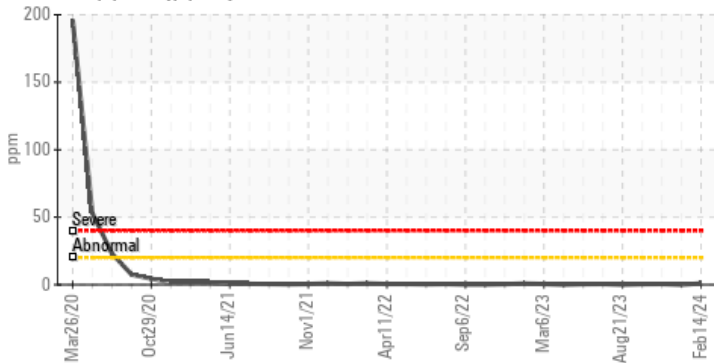
### Aluminum (ppm)



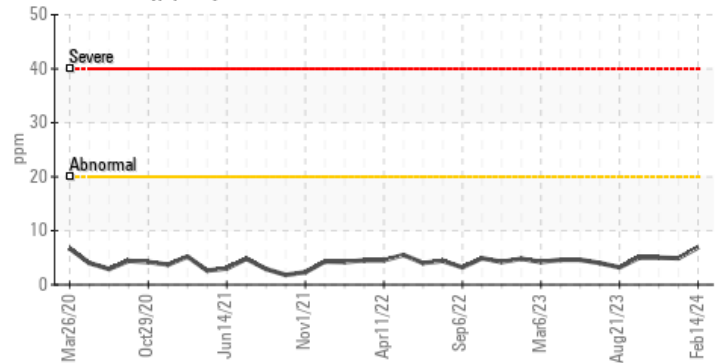
### Chromium (ppm)



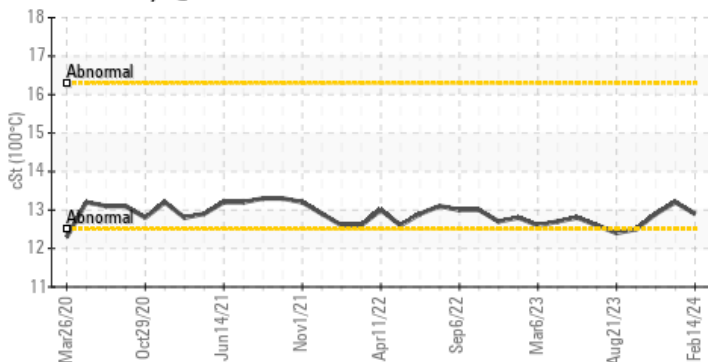
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

