



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342608 - DIESEL ENGINE



**Sample No:** VCP433287  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP433287</b>	VCP416949	VCP331576	VCP331546
Sample Date	<b>02 Apr 2024</b>	13 Feb 2024	11 Dec 2023	06 Nov 2023
Machine Hours	<b>11716</b>	11353	11060	10895
Oil Hours	<b>363</b>	293	165	236
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>12.8</b>	12.8	13.0	13.0
Base Number (BN)	mg KOH/g	<b>8.3</b>	7.6	6.7	7.0
Oxidation (PA)	%	<b>73</b>	68	59	63

### 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 suitable for further service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.2	0.1	0.2
Nitration (PA)	%	<b>69</b>	67	68	72
Sulfation (PA)	%	<b>56</b>	54	50	52
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	4	5
Sodium	ppm	<b>6</b>	11	5	14
Potassium	ppm	<b>6</b>	8	5	7



### WEAR METALS

Iron	ppm	<b>7</b>	7	3	3
Copper	ppm	<b>1</b>	1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>7</b>	6	4	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>73</b>	85	120	115
Nickel	ppm	<b>1</b>	2	2	<1
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>1489</b>	1262	1207	1340
Magnesium	ppm	<b>538</b>	520	636	705
Zinc	ppm	<b>876</b>	808	831	963
Phosphorus	ppm	<b>773</b>	636	749	736
Barium	ppm	<b>0</b>	34	0	0
Boron	ppm	<b>75</b>	78	121	130

**Depot:** SCHGRE  
**Unique No:** 10989473  
**Signed:** Wes Davis  
**Report Date:** 22 Apr 2024

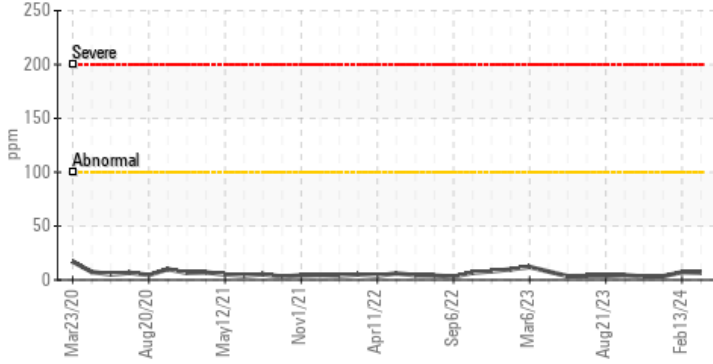


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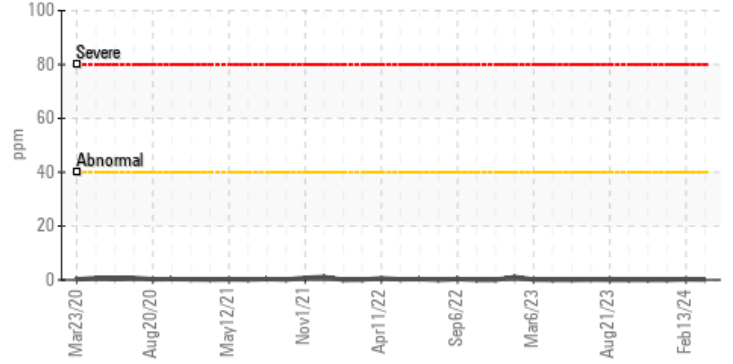


## GRAPHS

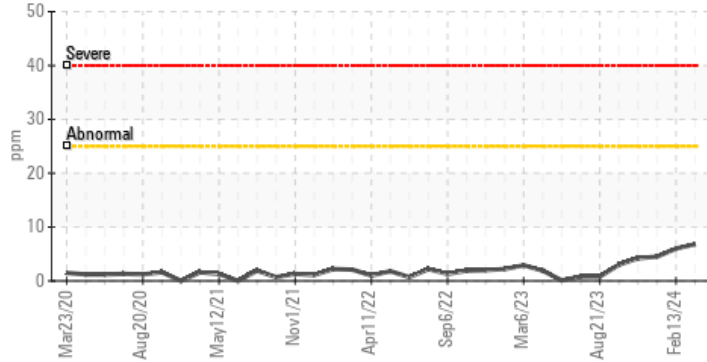
### Iron (ppm)



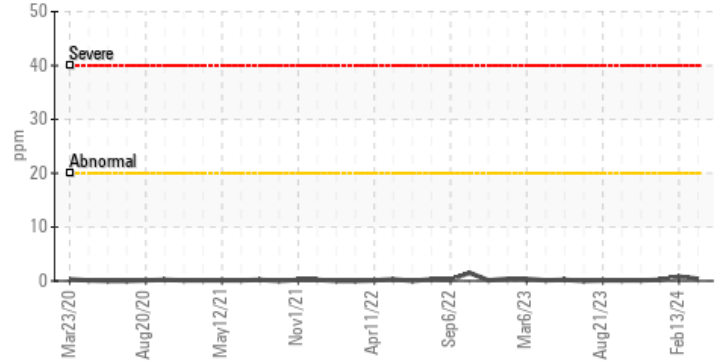
### Lead (ppm)



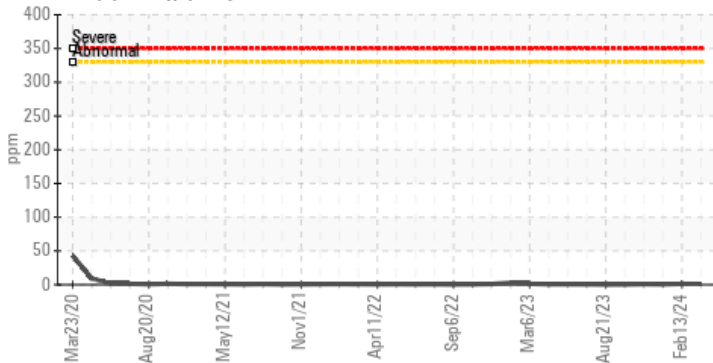
### Aluminum (ppm)



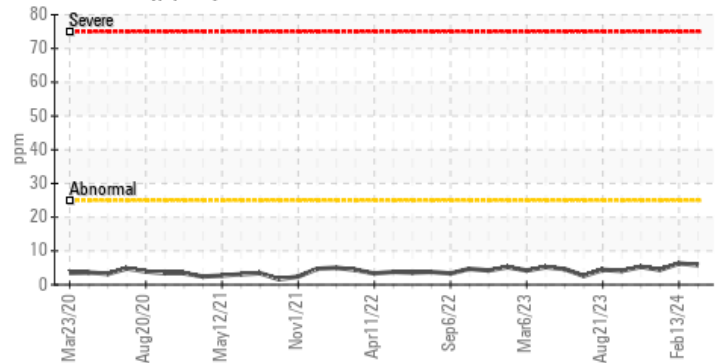
### Chromium (ppm)



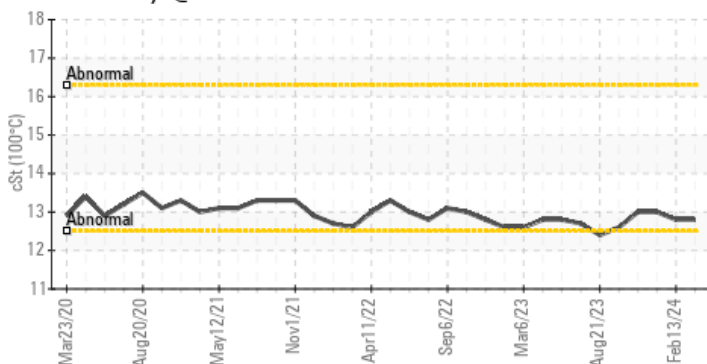
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

