



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 341476 - DIESEL ENGINE



**Sample No:** VCP416753  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP416753</b>	VCP312520	VCP404731	VCP406000
Sample Date	<b>06 Feb 2024</b>	04 Dec 2023	24 Oct 2023	12 Sep 2023
Machine Hours	<b>17630</b>	17394	17166	16932
Oil Hours	<b>236</b>	228	234	302
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>13.2</b>	13.1	13.1	12.8
Base Number (BN)	mg KOH/g	<b>6.6</b>	6.8	7.8	9.5
Oxidation (PA)	%	<b>78</b>	73	78	94

### 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>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>88</b>	84	77	72
Sulfation (PA)	%	<b>58</b>	56	58	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>8</b>	6	5	5
Sodium	ppm	<b>3</b>	<1	4	<1
Potassium	ppm	<b>2</b>	2	2	1



### WEAR METALS

Iron	ppm	<b>5</b>	4	3	4
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	3	4	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>99</b>	112	100	44
Nickel	ppm	<b>&lt;1</b>	<1	<1	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1246</b>	1324	1426	1737
Magnesium	ppm	<b>564</b>	633	641	505
Zinc	ppm	<b>834</b>	873	953	970
Phosphorus	ppm	<b>670</b>	720	776	782
Barium	ppm	<b>34</b>	11	<1	0
Boron	ppm	<b>92</b>	112	80	47

**Depot:** SCHGRE  
**Unique No:** 10898188  
**Signed:** Don Baldrige  
**Report Date:** 27 Feb 2024

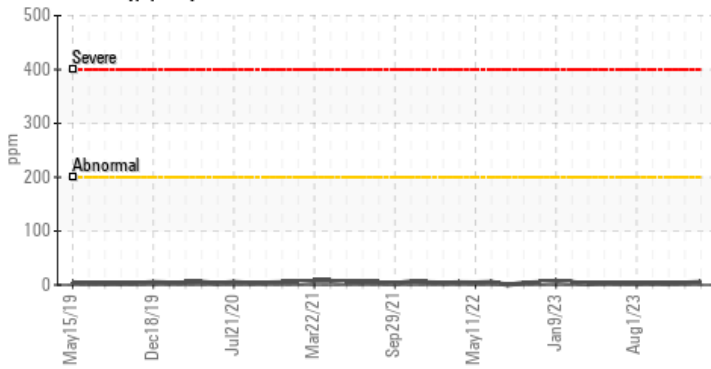


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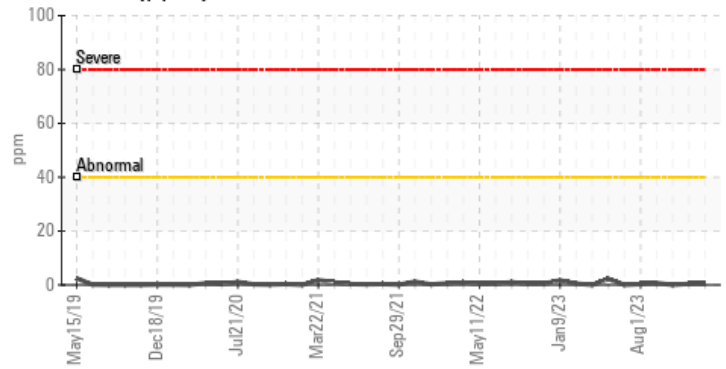


## GRAPHS

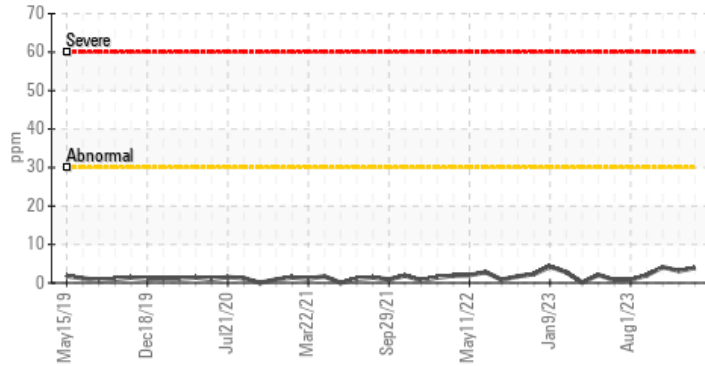
### Iron (ppm)



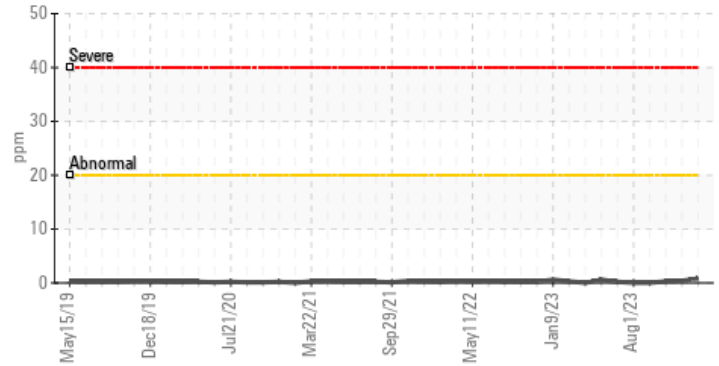
### Lead (ppm)



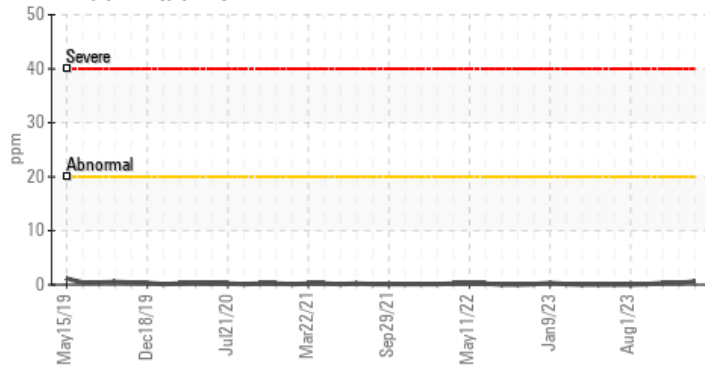
### Aluminum (ppm)



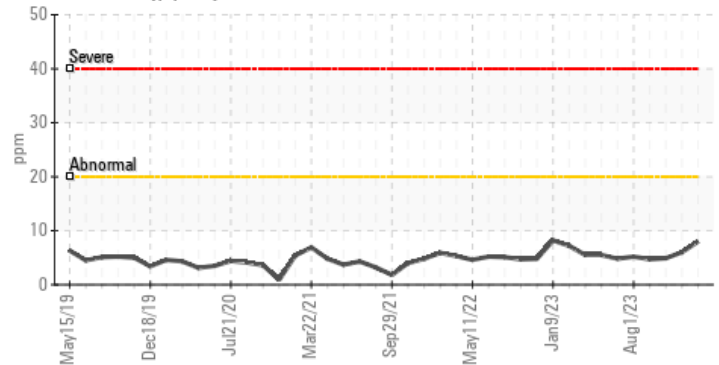
### Chromium (ppm)



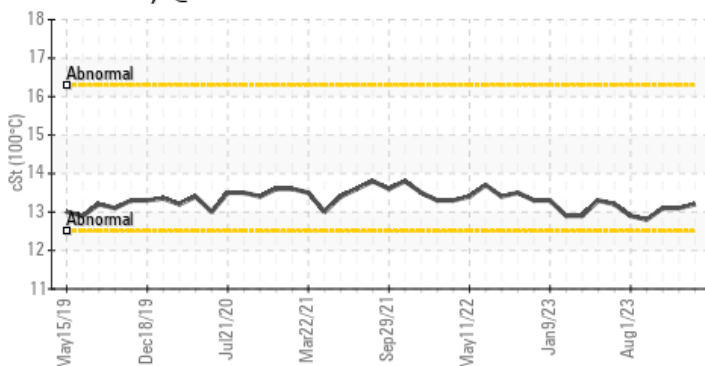
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

