



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 341462 - DIESEL ENGINE



**Sample No:** VCP312563  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP312563</b>	VCP396751	VCP379366	VCP402416
Sample Date	<b>01 Sep 2023</b>	26 Jul 2023	26 Jun 2023	16 May 2023
Machine Hours	<b>16607</b>	16335	16177	15906
Oil Hours	<b>272</b>	158	271	242
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>12.6</b>	12.7	12.8	13.0
Base Number (BN)	mg KOH/g	<b>10.1</b>	9.8	9.8	9.9
Oxidation (PA)	%	<b>81</b>	76	84	82



### CONTAMINATION

Soot %	%	<b>0.2</b>	0.1	0.2	0.2
Nitration (PA)	%	<b>52</b>	47	52	53
Sulfation (PA)	%	<b>61</b>	58	61	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	5	5
Sodium	ppm	<b>&lt;1</b>	2	2	3
Potassium	ppm	<b>&lt;1</b>	1	<1	4



### WEAR METALS

Iron	ppm	<b>3</b>	2	3	3
Copper	ppm	<b>&lt;1</b>	<1	0	0
Lead	ppm	<b>&lt;1</b>	0	0	1
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>2</b>	<1	<1	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>42</b>	39	39	38
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	<1	0	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>1652</b>	1755	1723	1747
Magnesium	ppm	<b>473</b>	527	511	516
Zinc	ppm	<b>917</b>	909	948	932
Phosphorus	ppm	<b>745</b>	756	780	726
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>46</b>	52	51	54

### 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.

**Depot:** SCHGRE  
**Unique No:** 10671667  
**Signed:** Wes Davis  
**Report Date:** 02 Oct 2023

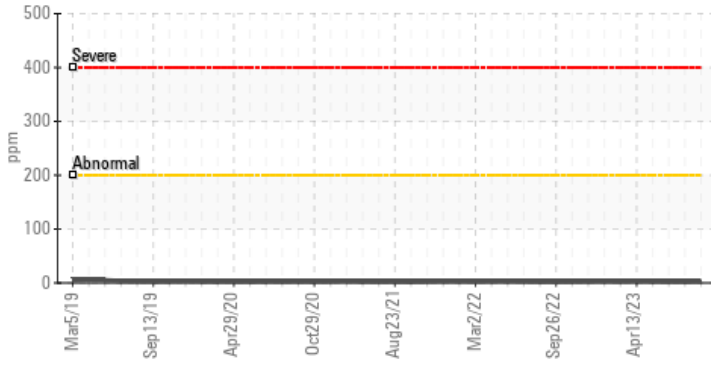


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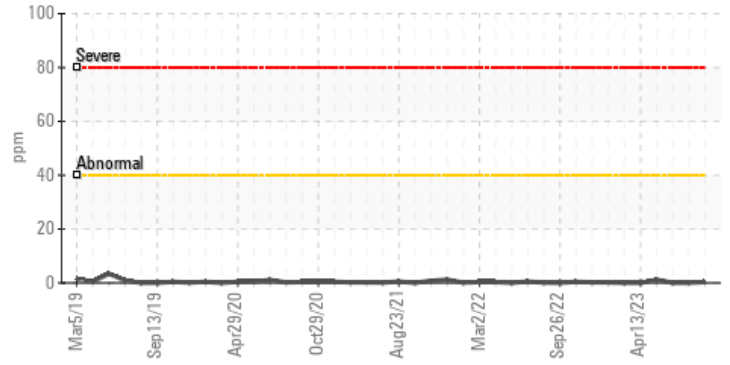


## GRAPHS

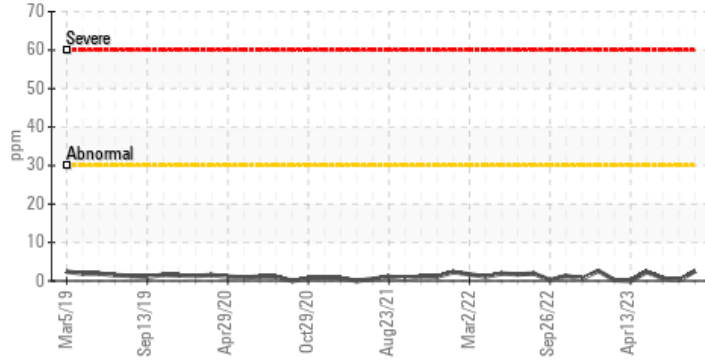
### Iron (ppm)



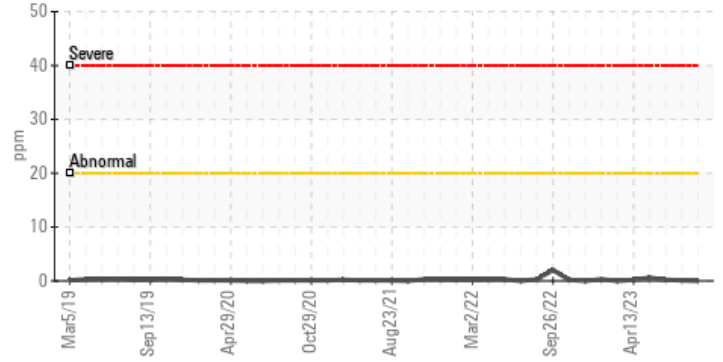
### Lead (ppm)



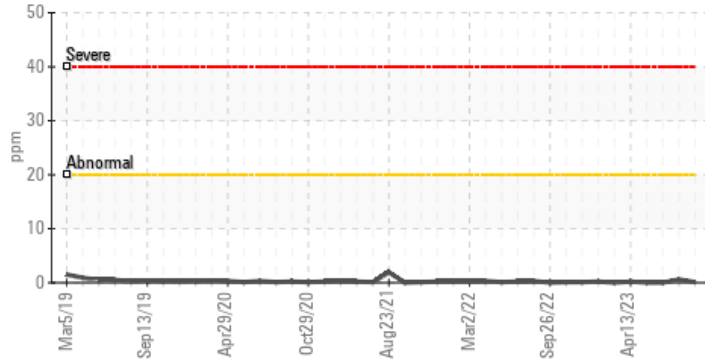
### Aluminum (ppm)



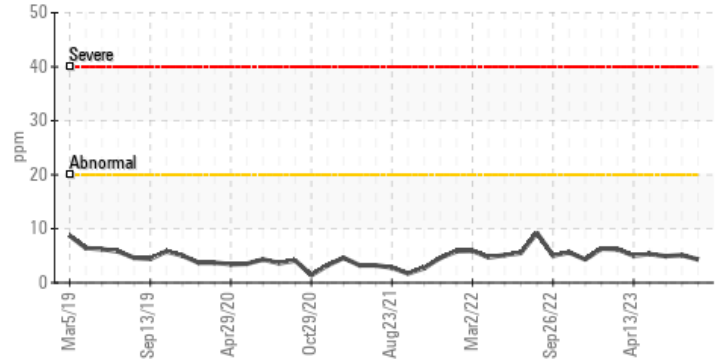
### Chromium (ppm)



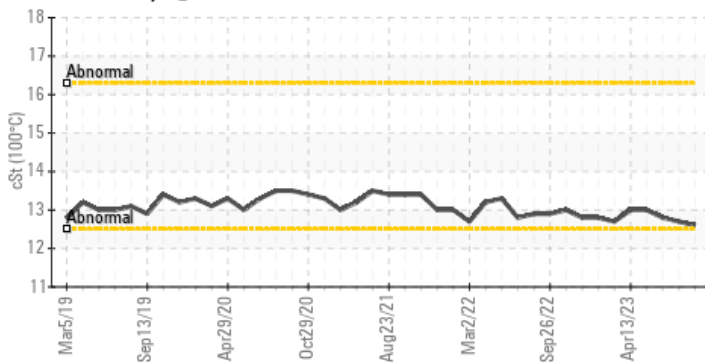
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

