



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352351 - DIESEL ENGINE



**Sample No:** VCP406109  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP406109</b>	VCP406466	VCP384402	VCP385140
Sample Date	<b>24 Aug 2023</b>	13 Jul 2023	30 May 2023	27 Apr 2023
Machine Hours	<b>7188</b>	6886	6612	6384
Oil Hours	<b>302</b>	274	228	364
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>12.3</b>	12.4	12.6	12.5
Base Number (BN)	mg KOH/g	<b>10.2</b>	9.9	9.8	8.7
Oxidation (PA)	%	<b>80</b>	80	80	76

### 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

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>53</b>	52	53	53
Sulfation (PA)	%	<b>61</b>	60	61	55
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	3	5	6
Sodium	ppm	<b>5</b>	0	5	12
Potassium	ppm	<b>2</b>	2	<1	5



### WEAR METALS

Iron	ppm	<b>4</b>	3	3	6
Copper	ppm	<b>0</b>	<1	<1	0
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>1</b>	<1	<1	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>37</b>	43	40	42
Nickel	ppm	<b>0</b>	<1	0	1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1655</b>	1663	1707	1826
Magnesium	ppm	<b>536</b>	479	500	531
Zinc	ppm	<b>864</b>	900	901	907
Phosphorus	ppm	<b>736</b>	764	722	793
Barium	ppm	<b>2</b>	2	0	0
Boron	ppm	<b>50</b>	58	56	53

**Depot:** SCHGRE  
**Unique No:** 10633952  
**Signed:** Wes Davis  
**Report Date:** 07 Sep 2023

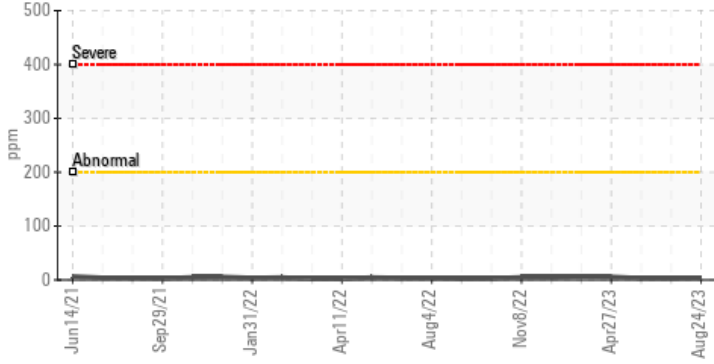


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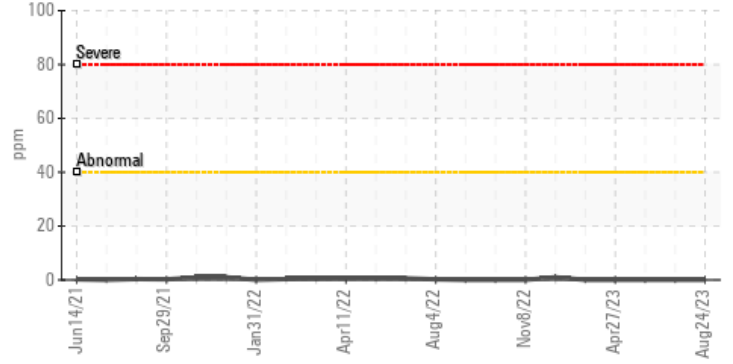


## GRAPHS

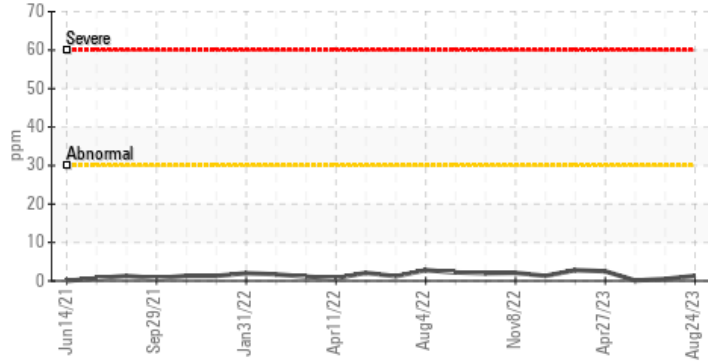
### Iron (ppm)



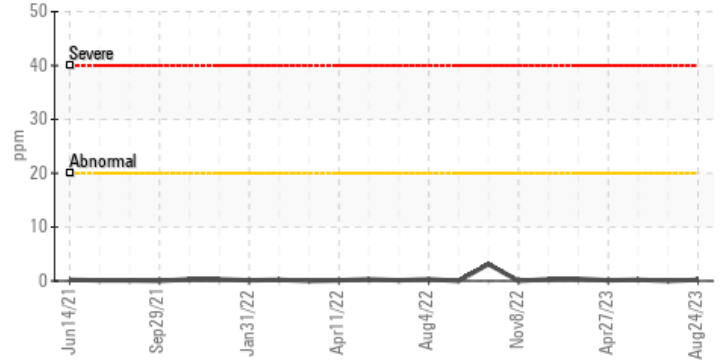
### Lead (ppm)



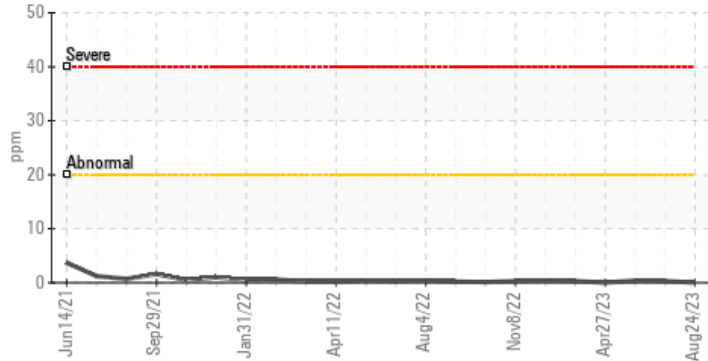
### Aluminum (ppm)



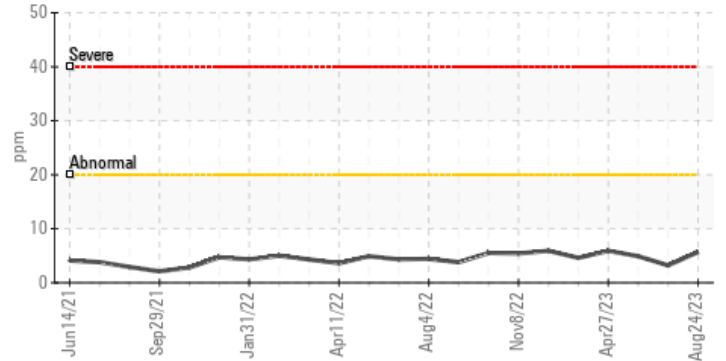
### Chromium (ppm)



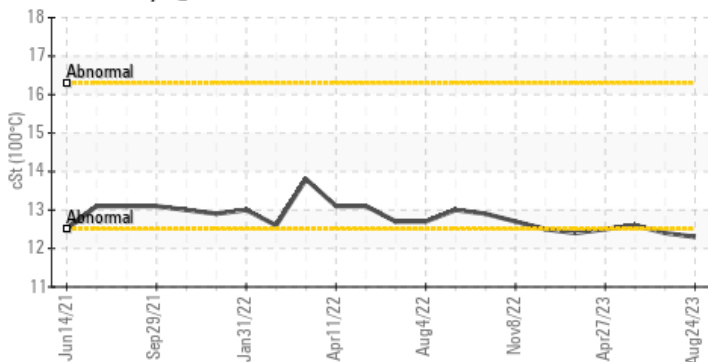
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

