



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342658 - DIESEL ENGINE



**Sample No:** VCP339696  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP339696</b>	VCP404644	VCP402356	VCP359541
Sample Date	<b>03 Oct 2023</b>	24 Aug 2023	13 Jul 2023	18 May 2023
Machine Hours	<b>9447</b>	9142	8893	8626
Oil Hours	<b>305</b>	249	267	253
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>12.7</b>	12.5	12.6	12.7
Base Number (BN)	mg KOH/g	<b>6.3</b>	10.5	10.0	10.1
Oxidation (PA)	%	<b>65</b>	80	79	81



### CONTAMINATION

Soot %	%	<b>0.2</b>	0.2	0.1	0.1
Nitration (PA)	%	<b>60</b>	52	53	52
Sulfation (PA)	%	<b>52</b>	61	60	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	2	6
Sodium	ppm	<b>4</b>	6	<1	5
Potassium	ppm	<b>2</b>	2	2	4



### WEAR METALS

Iron	ppm	<b>6</b>	8	7	8
Copper	ppm	<b>2</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	0	1
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>4</b>	1	<1	2
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>86</b>	37	42	38
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1443</b>	1648	1685	1741
Magnesium	ppm	<b>587</b>	520	483	517
Zinc	ppm	<b>907</b>	859	905	938
Phosphorus	ppm	<b>761</b>	725	773	734
Barium	ppm	<b>0</b>	2	2	0
Boron	ppm	<b>80</b>	51	58	56

### 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:** 10700643  
**Signed:** Wes Davis  
**Report Date:** 20 Oct 2023

**VOLVO** **GRAPHS**

