



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352026 - DIESEL ENGINE



**Sample No:** VCP341879  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP341879</b>	VCP402955	VCP400068	VCP384383
Sample Date	<b>09 Oct 2023</b>	29 Aug 2023	19 Jul 2023	07 Jun 2023
Machine Hours	<b>9322</b>	9029	8711	8529
Oil Hours	<b>293</b>	318	182	240
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>	12.3	12.6	12.7
Base Number (BN)	mg KOH/g	<b>7.2</b>	10.0	10.2	10.1
Oxidation (PA)	%	<b>62</b>	81	80	73

### 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	0.3
Nitration (PA)	%	<b>64</b>	55	50	51
Sulfation (PA)	%	<b>50</b>	61	60	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	0.4	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	2	4
Sodium	ppm	<b>5</b>	4	1	6
Potassium	ppm	<b>2</b>	1	3	2



### WEAR METALS

Iron	ppm	<b>3</b>	4	3	4
Copper	ppm	<b>0</b>	0	<1	2
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>4</b>	1	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>100</b>	37	42	39
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1353</b>	1637	1646	1588
Magnesium	ppm	<b>611</b>	514	470	473
Zinc	ppm	<b>881</b>	855	865	883
Phosphorus	ppm	<b>743</b>	717	760	733
Barium	ppm	<b>0</b>	2	2	0
Boron	ppm	<b>99</b>	48	62	56

**Depot:** SCHGRE  
**Unique No:** 10700641  
**Signed:** Wes Davis  
**Report Date:** 20 Oct 2023



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## GRAPHS

