



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352026 - DIESEL ENGINE



**Sample No:** VCP402955  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP402955</b>	VCP400068	VCP384383	VCP404866
Sample Date	<b>29 Aug 2023</b>	19 Jul 2023	07 Jun 2023	02 May 2023
Machine Hours	<b>9029</b>	8711	8529	8289
Oil Hours	<b>318</b>	182	240	308
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>	12.6	12.7	12.8
Base Number (BN)	mg KOH/g	<b>10.0</b>	10.2	10.1	8.6
Oxidation (PA)	%	<b>81</b>	80	73	73

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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	0.3	0.1
Nitration (PA)	%	<b>55</b>	50	51	51
Sulfation (PA)	%	<b>61</b>	60	59	54
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>0.4</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	2	4	4
Sodium	ppm	<b>4</b>	1	6	11
Potassium	ppm	<b>1</b>	3	2	6



### WEAR METALS

Iron	ppm	<b>4</b>	3	4	4
Copper	ppm	<b>0</b>	<1	2	0
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>1</b>	<1	<1	3
Chromium	ppm	<b>&lt;1</b>	0	<1	0
Molybdenum	ppm	<b>37</b>	42	39	41
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1637</b>	1646	1588	1795
Magnesium	ppm	<b>514</b>	470	473	539
Zinc	ppm	<b>855</b>	865	883	910
Phosphorus	ppm	<b>717</b>	760	733	803
Barium	ppm	<b>2</b>	2	0	0
Boron	ppm	<b>48</b>	62	56	52

**Depot:** SCHGRE  
**Unique No:** 10633958  
**Signed:** Wes Davis  
**Report Date:** 07 Sep 2023

