



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352351 - DIESEL ENGINE



**Sample No:** VCP444076  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP444076</b>	VCP433558	VCP416816	VCP331577
Sample Date	<b>29 Apr 2024</b>	02 Apr 2024	13 Feb 2024	11 Dec 2023
Machine Hours	<b>8835</b>	8612	8269	7971
Oil Hours	<b>223</b>	343	298	221
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>	12.6	12.7	12.8
Base Number (BN)	mg KOH/g	<b>9.5</b>	8.5	7.5	6.6
Oxidation (PA)	%	<b>75</b>	72	68	59

### 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

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>52</b>	66	64	68
Sulfation (PA)	%	<b>59</b>	56	54	49
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	7	6	6
Sodium	ppm	<b>3</b>	4	5	4
Potassium	ppm	<b>&lt;1</b>	3	3	3



### WEAR METALS

Iron	ppm	<b>2</b>	4	4	2
Copper	ppm	<b>1</b>	<1	<1	0
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>3</b>	4	4	4
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>50</b>	73	84	119
Nickel	ppm	<b>0</b>	<1	1	<1
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	0
Vanadium	ppm	<b>0</b>	<1	<1	0



### ADDITIVES

Calcium	ppm	<b>1735</b>	1503	1268	1213
Magnesium	ppm	<b>543</b>	546	518	639
Zinc	ppm	<b>937</b>	894	801	837
Phosphorus	ppm	<b>825</b>	794	637	766
Barium	ppm	<b>0</b>	0	34	0
Boron	ppm	<b>74</b>	83	82	124

**Depot:** SCHGRE  
**Unique No:** 11018432  
**Signed:** Wes Davis  
**Report Date:** 09 May 2024



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## VOLVO GRAPHS

