



# CONSTRUCTION EQUIPMENT

## SWO-063672 VOLVO A45G 352708 - DIESEL ENGINE



**Sample No:** VCP424300  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SWO-063672



### SAMPLE INFORMATION

Sample Number	<b>VCP424300</b>	VCP396764	VCP369293	VCP366786
Sample Date	<b>06 Jul 2023</b>	24 Mar 2023	08 Nov 2022	25 Jul 2022
Machine Hours	<b>3920</b>	3429	2956	2440
Oil Hours	<b>0</b>	0	0	2440
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

### SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD  
 BIRMINGHAM, AL  
 US 35207

Contact: STEPHANI BRITTON  
 sbritton@saiia.com;doug.bogart@wearcheck.com  
 T: (205)943-2268  
 F: (205)943-2269



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	12.5	12.7	▲ 12.3
Base Number (BN)	mg KOH/g	<b>10.3</b>	9.9	8.8	7.5
Oxidation (PA)	%	<b>79</b>	77	71	64

### 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 acceptable for the time in service.



### CONTAMINATION

Soot %	%	<b>0.2</b>	0.3	0.5	0.4
Nitration (PA)	%	<b>58</b>	63	84	86
Sulfation (PA)	%	<b>61</b>	60	61	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	6	6	6
Sodium	ppm	<b>2</b>	2	4	5
Potassium	ppm	<b>1</b>	0	0	<1



### WEAR METALS

Iron	ppm	<b>6</b>	11	13	12
Copper	ppm	<b>&lt;1</b>	1	3	4
Lead	ppm	<b>1</b>	<1	3	3
Tin	ppm	<b>&lt;1</b>	<1	2	2
Aluminum	ppm	<b>2</b>	2	3	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>40</b>	41	31	26
Nickel	ppm	<b>2</b>	2	3	3
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>1654</b>	1571	1483	1422
Magnesium	ppm	<b>476</b>	513	567	591
Zinc	ppm	<b>1039</b>	1042	862	867
Phosphorus	ppm	<b>844</b>	832	679	660
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>54</b>	51	39	48

**Depot:** SAIBIR  
**Unique No:** 10550564  
**Signed:** Don Baldrige  
**Report Date:** 12 Jul 2023



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## VOLVO GRAPHS

