



# CONSTRUCTION EQUIPMENT

## SWO-066004 VOLVO A45G 352769 - DIESEL ENGINE



**Sample No:** VCP433858  
**Oil Type:** NOT GIVEN  
**Job No:** SWO-066004



### SAMPLE INFORMATION

Sample Number	<b>VCP433858</b>	VCP408948	VCP402397	VCP388363
Sample Date	<b>20 Sep 2023</b>	21 Jun 2023	02 Mar 2023	05 Dec 2022
Machine Hours	<b>4400</b>	3875	3355	2886
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### 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>12.4</b>	12.8	12.6	12.8
Base Number (BN)	mg KOH/g	<b>10.1</b>	10.2	10.6	11.6
Oxidation (PA)	%	<b>80</b>	81	77	84



### CONTAMINATION

Soot %	%	<b>0.2</b>	0.2	0.2	0.3
Nitration (PA)	%	<b>53</b>	58	56	64
Sulfation (PA)	%	<b>60</b>	61	60	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>0.5</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	3	7
Sodium	ppm	<b>2</b>	3	0	1
Potassium	ppm	<b>0</b>	1	<1	20



### WEAR METALS

Iron	ppm	<b>6</b>	7	4	10
Copper	ppm	<b>&lt;1</b>	1	0	<1
Lead	ppm	<b>&lt;1</b>	2	0	2
Tin	ppm	<b>&lt;1</b>	1	0	<1
Aluminum	ppm	<b>0</b>	0	0	8
Chromium	ppm	<b>0</b>	<1	0	1
Molybdenum	ppm	<b>40</b>	44	42	46
Nickel	ppm	<b>&lt;1</b>	1	0	<1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	<1	0	<1
Manganese	ppm	<b>&lt;1</b>	1	0	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1743</b>	1764	1606	1864
Magnesium	ppm	<b>510</b>	543	466	474
Zinc	ppm	<b>1129</b>	1154	1047	987
Phosphorus	ppm	<b>907</b>	972	882	797
Barium	ppm	<b>0</b>	4	<1	0
Boron	ppm	<b>47</b>	60	54	51

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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 acceptable for the time in service.

**Depot:** SAIBIR  
**Unique No:** 10660829  
**Signed:** Don Baldrige  
**Report Date:** 27 Sep 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

