



# CONSTRUCTION EQUIPMENT

## SWO-067232 VOLVO A60H 350067 - DIESEL ENGINE



**Sample No:** VCP431989  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** SWO-067232



### SAMPLE INFORMATION

Sample Number	<b>VCP431989</b>	VCP404961	VCP410132	VCP365626
Sample Date	<b>03 Nov 2023</b>	12 Jul 2023	31 Mar 2023	09 Nov 2022
Machine Hours	<b>6403</b>	5889	5382	4893
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>13.0</b>	12.9	12.6	12.8
Base Number (BN)	mg KOH/g	<b>9.9</b>	9.1	9.8	10.2
Oxidation (PA)	%	<b>82</b>	79	76	68



### CONTAMINATION

Soot %	%	<b>0.6</b>	0.5	0.3	0.5
Nitration (PA)	%	<b>65</b>	63	60	68
Sulfation (PA)	%	<b>64</b>	61	60	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	5	3
Sodium	ppm	<b>3</b>	0	2	0
Potassium	ppm	<b>1</b>	1	<1	2



### WEAR METALS

Iron	ppm	<b>8</b>	10	8	8
Copper	ppm	<b>&lt;1</b>	1	2	1
Lead	ppm	<b>1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	2	2	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>40</b>	43	46	57
Nickel	ppm	<b>1</b>	2	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1719</b>	1642	1578	1248
Magnesium	ppm	<b>521</b>	484	540	797
Zinc	ppm	<b>1001</b>	1081	1094	1180
Phosphorus	ppm	<b>927</b>	929	903	977
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>33</b>	38	51	15

### 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.

**Depot:** SAIBIR  
**Unique No:** 10729742  
**Signed:** Jonathan Hester  
**Report Date:** 09 Nov 2023



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## GRAPHS

