



# CONSTRUCTION EQUIPMENT

SWO-064553 VOLVO A45G 352565 - DIESEL ENGINE



**Sample No:** VCP414173  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** SWO-064553



## SAMPLE INFORMATION

Sample Number	<b>VCP414173</b>	VCP413251	VCP402206	VCP406408
Sample Date	<b>31 Jul 2023</b>	31 May 2023	06 Apr 2023	07 Feb 2023
Machine Hours	<b>7625</b>	7148	6710	6181
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>12.8</b>	12.7	13.0	13.0
Base Number (BN)	mg KOH/g	<b>9.7</b>	9.3	8.4	9.8
Oxidation (PA)	%	<b>83</b>	81	79	80



## CONTAMINATION

Soot %	%	<b>0.4</b>	0.3	0.3	0.3
Nitration (PA)	%	<b>66</b>	67	63	70
Sulfation (PA)	%	<b>63</b>	63	58	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	4	4	7
Sodium	ppm	<b>2</b>	2	2	2
Potassium	ppm	<b>0</b>	0	11	0



## WEAR METALS

Iron	ppm	<b>7</b>	6	36	8
Copper	ppm	<b>&lt;1</b>	0	2	<1
Lead	ppm	<b>&lt;1</b>	0	0	1
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>4</b>	<1	12	3
Chromium	ppm	<b>&lt;1</b>	<1	1	<1
Molybdenum	ppm	<b>43</b>	48	72	45
Nickel	ppm	<b>&lt;1</b>	<1	0	1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1824</b>	1768	1282	1672
Magnesium	ppm	<b>539</b>	531	974	569
Zinc	ppm	<b>1205</b>	1060	1317	1163
Phosphorus	ppm	<b>981</b>	836	1072	928
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>42</b>	36	14	43

## 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:** 10587684  
**Signed:** Doug Bogart  
**Report Date:** 06 Aug 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

