



# CONSTRUCTION EQUIPMENT

## SWO-066739 VOLVO A45G 352698 - DIESEL ENGINE



**Sample No:** VCP427459  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-066739



### SAMPLE INFORMATION

Sample Number	<b>VCP427459</b>	VCP406870	VCP408686	VCP367727
Sample Date	<b>23 Oct 2023</b>	07 Aug 2023	16 May 2023	17 Jan 2023
Machine Hours	<b>5103</b>	4553	4038	3513
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>	12.6	12.8	12.8
Base Number (BN)	mg KOH/g	<b>8.6</b>	10.3	10.0	10.0
Oxidation (PA)	%	<b>61</b>	80	81	78



### CONTAMINATION

Soot %	%	<b>0.2</b>	0.2	0.2	0.3
Nitration (PA)	%	<b>52</b>	55	57	64
Sulfation (PA)	%	<b>52</b>	61	63	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	5	5
Sodium	ppm	<b>&lt;1</b>	0	<1	<1
Potassium	ppm	<b>&lt;1</b>	<1	<1	0



### WEAR METALS

Iron	ppm	<b>2</b>	5	7	6
Copper	ppm	<b>1</b>	6	18	53
Lead	ppm	<b>&lt;1</b>	1	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	1	<1	1
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>49</b>	44	41	38
Nickel	ppm	<b>&lt;1</b>	<1	1	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1204</b>	1787	1634	1572
Magnesium	ppm	<b>768</b>	492	480	490
Zinc	ppm	<b>1178</b>	1158	1056	948
Phosphorus	ppm	<b>984</b>	960	900	811
Barium	ppm	<b>0</b>	2	0	0
Boron	ppm	<b>19</b>	53	51	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:** 10714609  
**Signed:** Don Baldrige  
**Report Date:** 31 Oct 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

