



# CONSTRUCTION EQUIPMENT

## SWA311393 RENTAL VOLVO A45G 342479 - DIESEL ENGINE



**Sample No:** VCP409166  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SWA311393 RENTAL



### SAMPLE INFORMATION

Sample Number	<b>VCP409166</b>	VCP398005	VCP401396	VCP387341
Sample Date	<b>28 Jul 2023</b>	19 May 2023	15 Mar 2023	27 Oct 2022
Machine Hours	<b>9012</b>	8369	7800	6690
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA CONSTRUCTION EQUIPMENT**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.0	12.8	13.1
Base Number (BN)	mg KOH/g	<b>8.4</b>	8.4	7.6	9.7
Oxidation (PA)	%	<b>57</b>	57	56	63

### 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.



### CONTAMINATION

Soot %	%	<b>0.4</b>	0.4	0.3	0.3
Nitration (PA)	%	<b>61</b>	66	59	71
Sulfation (PA)	%	<b>52</b>	51	48	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>2</b>	3	5	4
Sodium	ppm	<b>0</b>	0	0	5
Potassium	ppm	<b>2</b>	2	1	1



### WEAR METALS

Iron	ppm	<b>6</b>	9	8	8
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>1</b>	2	0	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>61</b>	63	74	69
Nickel	ppm	<b>&lt;1</b>	<1	0	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	<1	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1073</b>	1069	1085	1068
Magnesium	ppm	<b>921</b>	909	820	912
Zinc	ppm	<b>1221</b>	1207	1147	1225
Phosphorus	ppm	<b>1028</b>	1019	950	1010
Barium	ppm	<b>0</b>	0	2	2
Boron	ppm	<b>0</b>	0	24	10

**Depot:** VOLVO5055  
**Unique No:** 10589085  
**Signed:** Wes Davis  
**Report Date:** 08 Aug 2023



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## VOLVO GRAPHS

