



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 342538 - DIESEL ENGINE



**Sample No:** VCP0007973

**Oil Type:** NOT GIVEN

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP0007973</b>	VCP360653	VCP332007	VCP337033
Sample Date	<b>06 Jul 2023</b>	12 Apr 2022	01 Dec 2021	03 Aug 2021
Machine Hours	<b>0</b>	5233	4760	4214
Oil Hours	<b>0</b>	500	500	1500
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

**QGS - QUALITY GRASSES SERV/TCF LEASING**  
 17502 CR 672  
 LITHIA, FL  
 US 33547  
 Contact: GARY ROGERS  
 grogers@qgsdevelopment.com  
 T: (813)323-4119  
 F:



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	12.8	12.8	12.5
Base Number (BN)	mg KOH/g	<b>9.7</b>	11.3	10.4	---
Oxidation (PA)	%	<b>55</b>	86	83	76

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Exhaust valve wear is indicated. All other 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 acceptable for the time in service.



### CONTAMINATION

Soot %	%	<b>0.1</b>	0.4	0.5	0.2
Nitration (PA)	%	<b>48</b>	68	73	67
Sulfation (PA)	%	<b>51</b>	66	64	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	6	6	4
Sodium	ppm	<b>26</b>	28	15	1
Potassium	ppm	<b>21</b>	13	<1	0



### WEAR METALS

Iron	ppm	<b>5</b>	6	10	5
Copper	ppm	<b>2</b>	1	2	1
Lead	ppm	<b>&lt;1</b>	2	1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	2	3	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>61</b>	44	43	41
Nickel	ppm	<b>3</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	<1	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1546</b>	1746	1708	1655
Magnesium	ppm	<b>635</b>	526	502	487
Zinc	ppm	<b>1317</b>	1096	1143	1063
Phosphorus	ppm	<b>1097</b>	951	925	901
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	39	27	26

**Depot:** QUALITFL  
**Unique No:** 10548995  
**Signed:** Sean Felton  
**Report Date:** 11 Jul 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

