



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352896 - DIESEL ENGINE



**Sample No:** VCP143837

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP143837</b>	VCP141068	VCP150383	---
Sample Date	<b>27 Mar 2024</b>	01 Jun 2022	09 Feb 2022	---
Machine Hours	<b>2619</b>	1051	503	---
Oil Hours	<b>611</b>	522	503	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	---

### GLOVER CONSTRUCTION CO. INC.

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	12.5	10.5	---
Base Number (BN)	mg KOH/g	<b>6.7</b>	6.8	6.7	---
Oxidation (PA)	%	<b>51</b>	43	60	---

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Valve wear is indicated. 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

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.4</b>	0.2	0.3	---
Nitration (PA)	%	<b>68</b>	67	91	---
Sulfation (PA)	%	<b>52</b>	51	56	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.2	---
Silicon	ppm	<b>6</b>	11	31	---
Sodium	ppm	<b>2</b>	1	0	---
Potassium	ppm	<b>&lt;1</b>	0	0	---



### WEAR METALS

Iron	ppm	<b>18</b>	13	28	---
Copper	ppm	<b>15</b>	607	412	---
Lead	ppm	<b>0</b>	6	5	---
Tin	ppm	<b>3</b>	2	5	---
Aluminum	ppm	<b>2</b>	2	2	---
Chromium	ppm	<b>1</b>	<1	<1	---
Molybdenum	ppm	<b>44</b>	19	86	---
Nickel	ppm	<b>14</b>	2	3	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>0</b>	<1	0	---
Manganese	ppm	<b>1</b>	<1	2	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1572</b>	2194	2270	---
Magnesium	ppm	<b>611</b>	55	40	---
Zinc	ppm	<b>1130</b>	1082	1165	---
Phosphorus	ppm	<b>970</b>	881	985	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>&lt;1</b>	11	56	---

**Depot:** GLOPLE  
**Unique No:** 11008791  
**Signed:** Jonathan Hester  
**Report Date:** 06 May 2024



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## GRAPHS

