



# CONSTRUCTION EQUIPMENT

## 9697 VOLVO A30G 752024 - DIESEL ENGINE



**Sample No:** VCP413683  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 9697



### SAMPLE INFORMATION

Sample Number	<b>VCP413683</b>	VCP404213	VCP338161	VCP318160
Sample Date	<b>20 Sep 2023</b>	01 May 2023	17 Dec 2021	13 Aug 2021
Machine Hours	<b>4778</b>	4372	2235	1578
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</b>	ATTENTION	ATTENTION	ATTENTION

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### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.3</b>	▲ 11.3	▲ 12.4	▲ 12.0
Base Number (BN)	mg KOH/g	<b>■ 6.8</b>	■ 4.1	■ 8.1	---
Oxidation (PA)	%	<b>63</b>	65	71	72



### CONTAMINATION

Soot %	%	<b>■ 0.5</b>	■ 0.7	■ 0.4	■ 0.3
Nitration (PA)	%	<b>65</b>	78	70	73
Sulfation (PA)	%	<b>62</b>	59	66	68
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	▲ 2.0	<1.0	<1.0
Silicon	ppm	<b>■ 5</b>	■ 4	■ 4	■ 5
Sodium	ppm	<b>■ 2</b>	■ 4	■ <1	■ 2
Potassium	ppm	<b>■ &lt;1</b>	■ 2	■ <1	■ <1



### WEAR METALS

Iron	ppm	<b>■ 19</b>	■ 39	■ 11	■ 11
Copper	ppm	<b>■ 7</b>	▲ 37	■ 12	■ 15
Lead	ppm	<b>▲ 42</b>	■ <1	■ 0	■ 0
Tin	ppm	<b>■ &lt;1</b>	■ 2	■ 1	■ <1
Aluminum	ppm	<b>■ 4</b>	■ 6	■ 2	■ 2
Chromium	ppm	<b>■ &lt;1</b>	■ 1	■ <1	■ <1
Molybdenum	ppm	<b>■ 93</b>	■ 70	■ 124	■ 116
Nickel	ppm	<b>■ &lt;1</b>	■ 3	■ 3	■ 4
Titanium	ppm	<b>&lt;1</b>	0	<1	2
Silver	ppm	<b>■ 0</b>	■ 0	0	0
Manganese	ppm	<b>■ &lt;1</b>	■ 1	■ <1	■ <1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>■ 1436</b>	■ 1664	■ 1685	■ 1471
Magnesium	ppm	<b>■ 437</b>	■ 607	■ 675	■ 650
Zinc	ppm	<b>■ 1229</b>	■ 1176	■ 867	■ 809
Phosphorus	ppm	<b>■ 1011</b>	■ 840	■ 758	■ 701
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 322</b>	■ 23	■ 245	■ 277

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. The lead level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0150  
**Unique No:** 10676021  
**Signed:** Sean Felton  
**Report Date:** 09 Oct 2023



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## VOLVO GRAPHS

