



# CONSTRUCTION EQUIPMENT

## VOLVO A35G 34201 - DIESEL ENGINE



**Sample No:** VCP423662  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP423662</b>	VCP388173	VCP372996	VCP349736
Sample Date	<b>17 Apr 2023</b>	17 Oct 2022	26 Jul 2022	08 Mar 2022
Machine Hours	<b>0</b>	6772	6269	5540
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	Changed	Changed	N/A
Sample Status	<b>ATTENTION</b>	NORMAL	ATTENTION	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.1</b>	■ 12.5	<b>▲ 11.6</b>	■ 12.8
Base Number (BN)	mg KOH/g	<b>■ 6.1</b>	■ 8.8	■ 5.7	■ 8.3
Oxidation (PA)	%	<b>65</b>	72	49	79



### CONTAMINATION

Soot %	%	<b>■ 0.2</b>	■ 0.3	■ 0.2	■ 0.2
Nitration (PA)	%	<b>73</b>	88	75	85
Sulfation (PA)	%	<b>49</b>	59	59	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	■ 1.4	<1.0
Silicon	ppm	<b>■ 4</b>	■ 6	■ 6	■ 4
Sodium	ppm	<b>■ 1</b>	■ 4	■ 2	■ 2
Potassium	ppm	<b>■ 1</b>	■ 0	■ 2	■ <1



### WEAR METALS

Iron	ppm	<b>■ 9</b>	■ 7	■ 9	■ 9
Copper	ppm	<b>■ 11</b>	■ 1	■ 1	■ 2
Lead	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Aluminum	ppm	<b>■ 0</b>	■ 2	■ 2	■ 2
Chromium	ppm	<b>■ 0</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 60</b>	■ 45	■ 17	■ 53
Nickel	ppm	<b>■ 0</b>	■ <1	■ 0	■ 0
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>■ 0</b>	■ 0	■ <1	■ 0
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1265</b>	■ 1245	■ 1800	■ 1338
Magnesium	ppm	<b>■ 663</b>	■ 665	109	847
Zinc	ppm	<b>■ 912</b>	■ 824	■ 901	■ 974
Phosphorus	ppm	<b>■ 714</b>	■ 653	■ 721	■ 789
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 26</b>	■ 17	■ 8	■ 29

### Diagnosis

No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO8882  
**Unique No:** 10430508  
**Signed:** Jonathan Hester  
**Report Date:** 20 Apr 2023



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## GRAPHS

