



# CONSTRUCTION EQUIPMENT

## VOLVO A30G 742109 - DIESEL ENGINE



**Sample No:** VCP424425  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP424425</b>	VCP397472	VCP386720	VCP376223
Sample Date	<b>11 Jun 2023</b>	16 Jan 2023	21 Oct 2022	25 Jul 2022
Machine Hours	<b>7442</b>	8854	8413	8025
Oil Hours	<b>0</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	ATTENTION	NORMAL

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
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T:  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.9</b>	■ 12.3	<b>▲ 12.0</b>	■ 12.5
Base Number (BN)	mg KOH/g	<b>■ 9.3</b>	■ 8.7	■ 10.4	■ 10.2
Oxidation (PA)	%	<b>74</b>	69	64	84

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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.



### CONTAMINATION

Soot %	%	<b>■ 0.4</b>	■ 0.4	■ 0.3	■ 0.5
Nitration (PA)	%	<b>73</b>	66	63	73
Sulfation (PA)	%	<b>60</b>	58	57	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	■ 1.2	<1.0
Silicon	ppm	<b>■ 4</b>	■ 4	■ 3	■ 6
Sodium	ppm	<b>■ 1</b>	■ 3	■ 1	■ 2
Potassium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0



### WEAR METALS

Iron	ppm	<b>■ 6</b>	■ 10	■ 4	■ 7
Copper	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Lead	ppm	<b>■ 0</b>	■ <1	■ <1	■ <1
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Aluminum	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ 2
Chromium	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 47</b>	■ 44	■ 52	■ 43
Nickel	ppm	<b>■ 2</b>	■ 0	■ 0	■ 0
Titanium	ppm	<b>0</b>	■ 14	0	0
Silver	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>■ 1308</b>	■ 1501	1083	■ 1651
Magnesium	ppm	<b>671</b>	■ 631	■ 823	■ 454
Zinc	ppm	<b>■ 1070</b>	■ 1142	■ 1133	■ 1047
Phosphorus	ppm	<b>■ 893</b>	■ 952	■ 957	■ 840
Barium	ppm	<b>■ 0</b>	■ 0	■ 8	■ 0
Boron	ppm	<b>■ 11</b>	■ 31	■ 5	■ 27

**Depot:** RIPTAM  
**Unique No:** 10551678  
**Signed:** Don Baldrige  
**Report Date:** 13 Jul 2023



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## VOLVO GRAPHS

