



# CONSTRUCTION EQUIPMENT

## W07013414-1 VOLVO A35G 340230 - DIESEL ENGINE



**Sample No:** VCP418117  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** W07013414-1



### SAMPLE INFORMATION

Sample Number	<b>VCP418117</b>	VCP389080	VCP226391	VCP206779
Sample Date	<b>20 Sep 2023</b>	08 Nov 2022	21 Aug 2018	13 Jan 2017
Machine Hours	<b>5148</b>	4334	1444	976
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.3</b>	12.1	12.19	12.7
Base Number (BN)	mg KOH/g	<b>5.2</b>	10.6	---	---
Oxidation (PA)	%	<b>86</b>	72	79	40

### Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type. The condition of the oil is suitable for further service.



### CONTAMINATION

Soot %	%	<b>0.5</b>	0.2	0.2	0.1
Nitration (PA)	%	<b>98</b>	66	68	50
Sulfation (PA)	%	<b>64</b>	60	60	44
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>15</b>	6	8	6
Sodium	ppm	<b>5</b>	0	2	2
Potassium	ppm	<b>2</b>	1	0	1



### WEAR METALS

Iron	ppm	<b>25</b>	7	16	7
Copper	ppm	<b>32</b>	1	15	9
Lead	ppm	<b>3</b>	<1	1	<1
Tin	ppm	<b>1</b>	<1	0	2
Aluminum	ppm	<b>7</b>	4	2	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>53</b>	62	41	67
Nickel	ppm	<b>3</b>	0	3	1
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1351</b>	1690	1640	1297
Magnesium	ppm	<b>709</b>	514	576	1066
Zinc	ppm	<b>907</b>	1158	892	1210
Phosphorus	ppm	<b>633</b>	977	804	1157
Barium	ppm	<b>0</b>	2	0	0
Boron	ppm	<b>10</b>	72	18	10

**Depot:** VOLVO8882  
**Unique No:** 10660730  
**Signed:** Sean Felton  
**Report Date:** 26 Sep 2023



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## VOLVO GRAPHS

