



# CONSTRUCTION EQUIPMENT

## WO7013761-1 VOLVO A35G 340135 - DIESEL ENGINE



**Sample No:** VCP407645  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** WO7013761-1



### SAMPLE INFORMATION

Sample Number	<b>VCP407645</b>	VCP407231	VCP408196	VCP401263
Sample Date	<b>17 Nov 2023</b>	03 Aug 2023	25 Apr 2023	27 Jan 2023
Machine Hours	<b>9022</b>	8463	7881	7282
Oil Hours	<b>0</b>	500	500	0
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	ATTENTION	ATTENTION	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.3	11.4	12.5
Base Number (BN)	mg KOH/g	<b>7.3</b>	7.0	4.0	5.1
Oxidation (PA)	%	<b>67</b>	66	46	47

### 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. The condition of the oil is suitable for further service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.4	0.5	0.3
Nitration (PA)	%	<b>75</b>	78	68	71
Sulfation (PA)	%	<b>55</b>	54	50	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	1.8	<1.0
Silicon	ppm	<b>4</b>	5	6	5
Sodium	ppm	<b>3</b>	3	3	1
Potassium	ppm	<b>0</b>	<1	0	<1



### WEAR METALS

Iron	ppm	<b>5</b>	9	12	10
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	<1	0	<1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>1</b>	2	5	3
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>48</b>	51	54	15
Nickel	ppm	<b>&lt;1</b>	1	4	2
Titanium	ppm	<b>&lt;1</b>	<1	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>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1198</b>	1382	1940	2200
Magnesium	ppm	<b>714</b>	728	44	94
Zinc	ppm	<b>888</b>	933	986	1002
Phosphorus	ppm	<b>642</b>	735	815	827
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>20</b>	20	20	5

**Depot:** VOLVO8882  
**Unique No:** 10755204  
**Signed:** Jonathan Hester  
**Report Date:** 27 Nov 2023



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## GRAPHS

