



# CONSTRUCTION EQUIPMENT

## 11037 LEW SITE VOLVO A40G 342525 - DIESEL ENGINE



**Sample No:** VCP441838  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 11037 LEW SITE



### SAMPLE INFORMATION

Sample Number	<b>VCP441838</b>	VCP399902	VCP384835	VCP334653
Sample Date	<b>08 Sep 2023</b>	24 Feb 2023	19 Oct 2022	17 Nov 2021
Machine Hours	<b>4757</b>	4509	4360	2860
Oil Hours	<b>0</b>	0	500	500
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	ABNORMAL

**HOFFMAN EQUIPMENT - LIONVILLE**  
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### OIL CONDITION

Visc @ 100°C	cSt	█ <b>12.6</b>	█ 13.2	█ 12.7	▲ 12.3
Base Number (BN)	mg KOH/g	█ <b>10.7</b>	█ 7.2	█ 11.4	---
Oxidation (PA)	%	<b>77</b>	58	82	90

### 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

Soot %	%	█ <b>0.2</b>	█ 0.1	█ 0.2	█ 0.4
Nitration (PA)	%	<b>48</b>	72	62	90
Sulfation (PA)	%	<b>60</b>	52	64	67
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	█ 0.5
Silicon	ppm	█ <b>4</b>	█ 19	█ 6	█ 8
Sodium	ppm	█ <b>2</b>	█ 0	█ 0	█ 2
Potassium	ppm	█ <b>0</b>	█ 4	█ 0	█ 1



### WEAR METALS

Iron	ppm	█ <b>7</b>	█ 6	█ 10	█ 40
Copper	ppm	█ <b>10</b>	▲ 107	█ 2	▲ 57
Lead	ppm	█ <b>0</b>	█ 1	█ <1	█ 1
Tin	ppm	█ <b>0</b>	█ 2	█ <1	█ 1
Aluminum	ppm	█ <b>&lt;1</b>	█ 3	█ 2	█ 4
Chromium	ppm	█ <b>0</b>	█ 0	█ <1	█ <1
Molybdenum	ppm	█ <b>42</b>	█ 83	█ 40	█ 41
Nickel	ppm	█ <b>0</b>	█ <1	█ 0	█ 1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	█ <b>0</b>	█ 0	0	0
Manganese	ppm	█ <b>&lt;1</b>	█ 2	█ <1	█ 1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	█ <b>1802</b>	█ 2116	█ 1626	█ 1736
Magnesium	ppm	█ <b>560</b>	43	█ 494	█ 523
Zinc	ppm	█ <b>1178</b>	█ 1114	█ 1035	█ 1043
Phosphorus	ppm	█ <b>975</b>	█ 983	█ 870	█ 921
Barium	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Boron	ppm	█ <b>65</b>	█ 63	█ 44	█ 15

**Depot:** VOLVO8879  
**Unique No:** 10645913  
**Signed:** Wes Davis  
**Report Date:** 15 Sep 2023



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## GRAPHS

