



# CONSTRUCTION EQUIPMENT

## 240161 VOLVO L120H 632057 - DIESEL ENGINE



**Sample No:** VCP242369  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 240161



### SAMPLE INFORMATION

Sample Number	<b>VCP242369</b>	VCE242373	VCP251157	VCP251447
Sample Date	<b>20 Apr 2020</b>	29 Nov 2019	05 Nov 2019	04 Oct 2019
Machine Hours	<b>14944</b>	13221	12675	12030
Oil Hours	<b>0</b>	500	500	500
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**STRONGCO EQUIPMENT--CALGARY**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.0</b>	13.6	13.6	13.7
Oxidation (PA)	%	<b>59</b>	82	82	82



### CONTAMINATION

Soot %	%	<b>0.6</b>	0.2	0.3	0.6
Nitration (PA)	%	<b>82</b>	58	60	64
Sulfation (PA)	%	<b>66</b>	71	71	70
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>1.1</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	5	6
Sodium	ppm	<b>2</b>	2	2	3
Potassium	ppm	<b>2</b>	0	<1	<1



### WEAR METALS

Iron	ppm	<b>12</b>	8	11	17
Copper	ppm	<b>2</b>	2	2	4
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	1	1
Aluminum	ppm	<b>5</b>	4	4	5
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>6</b>	41	40	40
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>&lt;1</b>	<1	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1414</b>	1654	1637	1663
Magnesium	ppm	<b>724</b>	522	506	521
Zinc	ppm	<b>808</b>	876	870	892
Phosphorus	ppm	<b>713</b>	774	733	769
Barium	ppm	<b>&lt;1</b>	<1	<1	<1
Boron	ppm	<b>70</b>	49	43	38

### Diagnosis

Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO3909  
**Unique No:** 5033341  
**Signed:** Kevin Marson  
**Report Date:** 22 Apr 2020



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## VOLVO GRAPHS

