



# CONSTRUCTION EQUIPMENT

REGION OF WATERLOO 406065 VOLVO L120H 633154 - DIESEL ENGINE



**Sample No:** VCP448169  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 406065



## SAMPLE INFORMATION

Sample Number	<b>VCP448169</b>	VCP393894	VCP379998	VCP392000
Sample Date	<b>29 May 2024</b>	18 Mar 2024	31 Oct 2023	30 Aug 2023
Machine Hours	<b>5042</b>	4500	3500	3000
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Not Changd
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL

### Strongco Equipment

5179 Fountain St N.  
 Breslau, ON  
 CA N0B 1M0  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	11.6	13.1	13.1
Oxidation (PA)	%	<b>86</b>	88	84	84



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.6</b>	0.3	0.5	0.5
Nitration (PA)	%	<b>68</b>	62	64	68
Sulfation (PA)	%	<b>65</b>	65	65	68
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	1.8	<1.0	<1.0
Silicon	ppm	<b>7</b>	5	8	10
Sodium	ppm	<b>2</b>	2	3	3
Potassium	ppm	<b>&lt;1</b>	0	0	<1

### 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 condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>12</b>	11	12	15
Copper	ppm	<b>&lt;1</b>	<1	2	2
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>7</b>	6	6	7
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>41</b>	40	40	41
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1762</b>	1733	1713	1687
Magnesium	ppm	<b>513</b>	511	501	511
Zinc	ppm	<b>1109</b>	1071	1068	1088
Phosphorus	ppm	<b>968</b>	898	898	964
Barium	ppm	<b>0</b>	0	<1	0
Boron	ppm	<b>27</b>	36	27	24

**Depot:** CASKIT  
**Unique No:** 5788976  
**Signed:** Wes Davis  
**Report Date:** 06 Jun 2024



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## GRAPHS

