



# CONSTRUCTION EQUIPMENT

## 660726 CITY OF LAKEL VOLVO L60H 622234 - DIESEL ENGINE



**Sample No:** VCP432113  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 660726 CITY OF LAKEL



### SAMPLE INFORMATION

Sample Number	<b>VCP432113</b>	VCP393631	VCP329537	VCP286167
Sample Date	<b>22 Jan 2024</b>	12 Jan 2023	10 Feb 2022	10 Nov 2020
Machine Hours	<b>1986</b>	1502	1180	487
Oil Hours	<b>500</b>	500	600	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.5</b>	12.7	12.8	12.1
Base Number (BN)	mg KOH/g	<b>10.1</b>	10.6	11.0	---
Oxidation (PA)	%	<b>75</b>	78	83	55

### 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	0.111
Soot %	%	<b>0.2</b>	0.2	0.3	0.2
Nitration (PA)	%	<b>56</b>	57	68	64
Sulfation (PA)	%	<b>57</b>	59	64	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.3
Silicon	ppm	<b>7</b>	10	10	19
Sodium	ppm	<b>2</b>	2	1	2
Potassium	ppm	<b>0</b>	0	0	3



### WEAR METALS

Iron	ppm	<b>11</b>	16	22	22
Copper	ppm	<b>&lt;1</b>	2	3	8
Lead	ppm	<b>0</b>	<1	0	<1
Tin	ppm	<b>&lt;1</b>	1	2	2
Aluminum	ppm	<b>10</b>	10	9	4
Chromium	ppm	<b>&lt;1</b>	<1	1	1
Molybdenum	ppm	<b>42</b>	42	39	20
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	1	4
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1641</b>	1684	1659	1371
Magnesium	ppm	<b>535</b>	514	514	654
Zinc	ppm	<b>1119</b>	1136	1053	904
Phosphorus	ppm	<b>922</b>	916	894	867
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>42</b>	47	40	67

**Depot:** VOLVO0093  
**Unique No:** 10886306  
**Signed:** Sean Felton  
**Report Date:** 21 Feb 2024



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## GRAPHS

