



# CONSTRUCTION EQUIPMENT

## 392686 VOLVO L110G 8391 - DIESEL ENGINE



**Sample No:** VCP429764  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 392686



### SAMPLE INFORMATION

Sample Number	<b>VCP429764</b>	VCP394180	VCE220211	VCP180031
Sample Date	<b>28 Jan 2024</b>	11 Sep 2023	13 Sep 2017	25 Jan 2017
Machine Hours	<b>20913</b>	20776	12743	11602
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	N/A
Sample Status	<b>ATTENTION</b>	ABNORMAL	ABNORMAL	SEVERE



### WASTE MANAGEMENT

2301 Carp Rd, RR #2  
 CARP, ON  
 CA K0A 1L0  
 Contact: Cindy Pulice  
 cpulice@wm.com  
 T:  
 F:



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.3	13.2	16.1
Oxidation (PA)	%	<b>79</b>	79	83	71



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.7	0.4	1
Nitration (PA)	%	<b>57</b>	92	85	85
Sulfation (PA)	%	<b>63</b>	63	78	71
Glycol	%	<b>0.0</b>	0.0	0.0	0.0
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	11	18	30
Sodium	ppm	<b>232</b>	396	1665	498
Potassium	ppm	<b>1</b>	2	46	51



### WEAR METALS

Iron	ppm	<b>19</b>	33	28	36
Copper	ppm	<b>1</b>	3	4	6
Lead	ppm	<b>&lt;1</b>	<1	6	1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>5</b>	13	21	75
Chromium	ppm	<b>1</b>	3	4	3
Molybdenum	ppm	<b>46</b>	56	238	17
Nickel	ppm	<b>2</b>	6	3	5
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1663</b>	1623	1713	2495
Magnesium	ppm	<b>498</b>	540	508	15
Zinc	ppm	<b>1061</b>	1076	918	1234
Phosphorus	ppm	<b>949</b>	959	789	1002
Barium	ppm	<b>0</b>	0	<1	<1
Boron	ppm	<b>44</b>	15	30	32

### Diagnosis

Check for low coolant level. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service (see recommendation).

**Depot:** CAN254CAR  
**Unique No:** 5722129  
**Signed:** Bill Quesnel  
**Report Date:** 03 Feb 2024



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## VOLVO GRAPHS

