



# CONSTRUCTION EQUIPMENT

REGION OF PEEL 8-405353 VOLVO L110H 631487 - DIESEL ENGINE



**Sample No:** VCP430154  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 8-405353



## SAMPLE INFORMATION

Sample Number	<b>VCP430154</b>	VCP394971	VCP352587	VCP352377
Sample Date	<b>22 May 2024</b>	21 Jul 2023	10 Feb 2023	16 Sep 2022
Machine Hours	<b>6994</b>	6030	5500	5010
Oil Hours	<b>1000</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD  
MISSISSAUGA, ON  
CA L4W 4L4

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.2</b>	12.3	12.4	12.9
Oxidation (PA)	%	<b>82</b>	83	84	84



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.3	0.1	0.2
Nitration (PA)	%	<b>58</b>	63	62	63
Sulfation (PA)	%	<b>64</b>	66	69	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	5	5
Sodium	ppm	<b>2</b>	3	3	2
Potassium	ppm	<b>&lt;1</b>	0	0	0

### 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>13</b>	15	12	11
Copper	ppm	<b>2</b>	2	2	2
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	3	4	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>37</b>	36	41	37
Nickel	ppm	<b>&lt;1</b>	0	<1	<1
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>1587</b>	1522	1722	1599
Magnesium	ppm	<b>463</b>	466	483	469
Zinc	ppm	<b>986</b>	1008	1084	1043
Phosphorus	ppm	<b>860</b>	903	993	957
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>38</b>	36	42	32

**Depot:** SHEMIS  
**Unique No:** 5787593  
**Signed:** Wes Davis  
**Report Date:** 29 May 2024



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## GRAPHS

