



# CONSTRUCTION EQUIPMENT

369676 VOLVO L120H 632541 - DIESEL ENGINE



**Sample No:** VCP394593  
**Oil Type:** VOLVO 5W40  
**Job No:** 369676



## SAMPLE INFORMATION

Sample Number	<b>VCP394593</b>	VCP381816	VCP353118	VCP380856
Sample Date	<b>30 Jun 2023</b>	10 May 2023	08 Mar 2023	03 Jan 2023
Machine Hours	<b>11551</b>	10842	9759	8482
Oil Hours	<b>500</b>	400	700	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

6 - 38403 BURNT LAKE TRAIL  
 RED DEER COUNTY, AB  
 CA T4S 2L4  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	13.4	14.2	14.0
Oxidation (PA)	%	<b>87</b>	80	76	95

## CONTAMINATION

Soot %	%	<b>0.6</b>	0.2	0.7	0.7
Nitration (PA)	%	<b>63</b>	49	72	80
Sulfation (PA)	%	<b>66</b>	64	69	70
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	4	7	5
Sodium	ppm	<b>3</b>	2	3	2
Potassium	ppm	<b>0</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>11</b>	6	24	15
Copper	ppm	<b>&lt;1</b>	<1	2	1
Lead	ppm	<b>0</b>	<1	2	1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>7</b>	4	12	10
Chromium	ppm	<b>&lt;1</b>	<1	1	<1
Molybdenum	ppm	<b>41</b>	39	43	45
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1740</b>	1740	1841	1840
Magnesium	ppm	<b>521</b>	487	532	541
Zinc	ppm	<b>1104</b>	1057	1124	1151
Phosphorus	ppm	<b>979</b>	996	1019	1060
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>31</b>	48	34	38

**Depot:** VOLVO9652  
**Unique No:** 5604946  
**Signed:** Wes Davis  
**Report Date:** 05 Jul 2023



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## VOLVO GRAPHS

