



# CONSTRUCTION EQUIPMENT

8000398485 VOLVO L70G 614584 - DIESEL ENGINE



**Sample No:** VCP450433  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 8000398485



## SAMPLE INFORMATION

Sample Number	<b>VCP450433</b>	VCP394705	VCP332593	VCP332780
Sample Date	<b>21 Mar 2024</b>	11 Aug 2023	08 Aug 2022	23 Mar 2022
Machine Hours	<b>11460</b>	10885	9020	0
Oil Hours	<b>0</b>	0	0	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	NORMAL	ABNORMAL

### STRONGCO EQUIP (AB)

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

Visc @ 100°C	cSt	<b>13.2</b>	13.6	12.7	13.5
Oxidation (PA)	%	<b>92</b>	96	85	81



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.9</b>	1.2	0.5	1
Nitration (PA)	%	<b>84</b>	98	69	93
Sulfation (PA)	%	<b>65</b>	70	65	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	9	6	7
Sodium	ppm	<b>4</b>	7	3	2
Potassium	ppm	<b>&lt;1</b>	1	<1	<1

### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Aluminum ppm levels are abnormal. Piston wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



## WEAR METALS

Iron	ppm	<b>36</b>	59	22	53
Copper	ppm	<b>2</b>	3	<1	2
Lead	ppm	<b>&lt;1</b>	4	<1	2
Tin	ppm	<b>&lt;1</b>	2	<1	1
Aluminum	ppm	<b>▲ 18</b>	▲ 19	8	▲ 13
Chromium	ppm	<b>1</b>	2	<1	2
Molybdenum	ppm	<b>42</b>	47	42	56
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	0
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>1730</b>	1713	1639	1166
Magnesium	ppm	<b>523</b>	579	546	940
Zinc	ppm	<b>1102</b>	1157	1114	1193
Phosphorus	ppm	<b>912</b>	984	929	988
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>21</b>	12	25	3

**Depot:** VOLVO9652  
**Unique No:** 5749264  
**Signed:** Kevin Marson  
**Report Date:** 25 Mar 2024



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## VOLVO GRAPHS

