



# CONSTRUCTION EQUIPMENT

8000394721 VOLVO L120H 632927 - DIESEL ENGINE



**Sample No:** VCP380411  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 8000394721



## SAMPLE INFORMATION

Sample Number	<b>VCP380411</b>	VCP391817	VCP394704	VCP392204
Sample Date	<b>16 Feb 2024</b>	18 Oct 2023	11 Aug 2023	16 Jun 2023
Machine Hours	<b>7646</b>	6487	5896	5404
Oil Hours	<b>1000</b>	2000	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>SEVERE</b>	NORMAL	NORMAL	NORMAL

### 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>	13.0	13.3	13.5
Oxidation (PA)	%	<b>84</b>	82	80	84



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.5	0.4	0.4
Nitration (PA)	%	<b>56</b>	56	53	57
Sulfation (PA)	%	<b>64</b>	64	65	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	4	4
Sodium	ppm	<b>3</b>	2	2	2
Potassium	ppm	<b>&lt;1</b>	0	<1	<1

### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Silver ppm levels are severe. 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>9</b>	8	7	8
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>4</b>	4	3	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>40</b>	40	41	41
Nickel	ppm	<b>&lt;1</b>	<1	0	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>11</b>	<1	<1	<1
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1714</b>	1652	1683	1705
Magnesium	ppm	<b>501</b>	486	513	512
Zinc	ppm	<b>1056</b>	1058	1082	1076
Phosphorus	ppm	<b>932</b>	893	982	995
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>45</b>	36	40	39

**Depot:** VOLVO9652  
**Unique No:** 5734482  
**Signed:** Kevin Marson  
**Report Date:** 22 Feb 2024



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## GRAPHS

