



# CONSTRUCTION EQUIPMENT

379820 VOLVO L120H 632718 - DIESEL ENGINE



**Sample No:** VCP391560  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 379820



## SAMPLE INFORMATION

Sample Number	<b>VCP391560</b>	LH394700	VCP392196	VCP391971
Sample Date	<b>27 Sep 2023</b>	11 Aug 2023	05 Jun 2023	24 Apr 2023
Machine Hours	<b>10000</b>	9412	8691	8229
Oil Hours	<b>500</b>	500	500	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**STRONGCO EQUIP (AB)**  
 6 - 38403 BURNT LAKE TRAIL  
 RED DEER COUNTY, AB  
 CA T4S 2L4  
 Contact: Perry Doyle  
 pdoyle@strongco.com  
 T: (403)346-3473  
 F: (403)346-3487



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.1	13.5	14.1
Oxidation (PA)	%	<b>83</b>	82	84	85



## CONTAMINATION

Soot %	%	<b>0.6</b>	0.8	0.6	0.7
Nitration (PA)	%	<b>61</b>	64	57	65
Sulfation (PA)	%	<b>66</b>	68	66	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>10</b>	6	6	4
Sodium	ppm	<b>3</b>	3	2	2
Potassium	ppm	<b>0</b>	<1	<1	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>21</b>	16	14	16
Copper	ppm	<b>2</b>	1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>6</b>	7	6	6
Chromium	ppm	<b>1</b>	1	<1	1
Molybdenum	ppm	<b>40</b>	41	39	41
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>&lt;1</b>	<1	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1660</b>	1699	1725	1847
Magnesium	ppm	<b>499</b>	514	483	516
Zinc	ppm	<b>1083</b>	1094	1043	1117
Phosphorus	ppm	<b>916</b>	986	966	1001
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>33</b>	31	39	38

**Depot:** VOLVO9652  
**Unique No:** 5655115  
**Signed:** Wes Davis  
**Report Date:** 02 Oct 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

