



# CONSTRUCTION EQUIPMENT

8000382533 VOLVO L20HS VCEL20HSP01220259 - DIESEL ENGINE



**Sample No:** VCP380035  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 8000382533



## SAMPLE INFORMATION

Sample Number	<b>VCP380035</b>	VCP392446	VCP334405	VCP332547
Sample Date	<b>31 Oct 2023</b>	19 Jul 2023	05 Apr 2023	19 Jul 2022
Machine Hours	<b>2957</b>	2565	2066	923
Oil Hours	<b>0</b>	500	500	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	NORMAL

**STRONGCO EQUIP (AB)**  
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 RED DEER COUNTY, AB  
 CA T4S 2L4  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	13.9	15.8	12.9
Oxidation (PA)	%	<b>94</b>	100	140	76

## CONTAMINATION

Soot %	%	<b>0</b>	0	0	0
Nitration (PA)	%	<b>68</b>	80	120	66
Sulfation (PA)	%	<b>65</b>	67	83	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	8	▲ 21	7
Sodium	ppm	<b>4</b>	6	18	32
Potassium	ppm	<b>0</b>	<1	<1	<1

## 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>5</b>	6	10	11
Copper	ppm	<b>&lt;1</b>	<1	3	7
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>2</b>	1	2	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>45</b>	41	43	37
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	<1	2
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>1854</b>	1660	1777	1699
Magnesium	ppm	<b>567</b>	519	554	456
Zinc	ppm	<b>1217</b>	1112	1147	1090
Phosphorus	ppm	<b>1023</b>	1004	1046	904
Barium	ppm	<b>&lt;1</b>	0	0	<1
Boron	ppm	<b>52</b>	52	51	51

**Depot:** VOLVO9652  
**Unique No:** 5670629  
**Signed:** Wes Davis  
**Report Date:** 02 Nov 2023



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## GRAPHS

