



# CONSTRUCTION EQUIPMENT

8000376430 VOLVO L120H 632069 - DIESEL ENGINE



**Sample No:** VCP353393  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 8000376430



## SAMPLE INFORMATION

Sample Number	<b>VCP353393</b>	VCP334378	VCP353356	VCP349614
Sample Date	<b>01 Sep 2023</b>	26 May 2023	17 Mar 2023	14 Sep 2022
Machine Hours	<b>27191</b>	26718	26189	22616
Oil Hours	<b>0</b>	0	0	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>13.5</b>	13.9	15.2	13.6
Oxidation (PA)	%	<b>82</b>	86	73	90



## CONTAMINATION

Soot %	%	<b>0.4</b>	0.4	0.5	0.4
Nitration (PA)	%	<b>62</b>	66	77	72
Sulfation (PA)	%	<b>64</b>	65	71	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>	5	7	12
Sodium	ppm	<b>3</b>	3	3	3
Potassium	ppm	<b>&lt;1</b>	0	0	<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>15</b>	17	37	35
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>5</b>	6	10	9
Chromium	ppm	<b>&lt;1</b>	<1	1	2
Molybdenum	ppm	<b>43</b>	43	51	44
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1766</b>	1851	2106	1781
Magnesium	ppm	<b>529</b>	522	603	531
Zinc	ppm	<b>1133</b>	1119	1308	1144
Phosphorus	ppm	<b>968</b>	1033	1178	1046
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>38</b>	44	40	30

**Depot:** VOLVO9652  
**Unique No:** 5646501  
**Signed:** Wes Davis  
**Report Date:** 27 Sep 2023

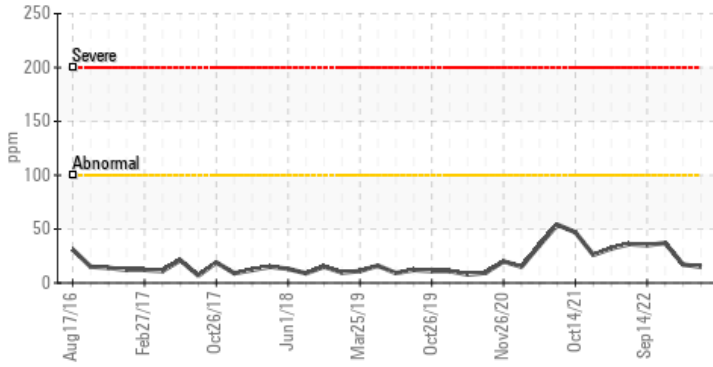


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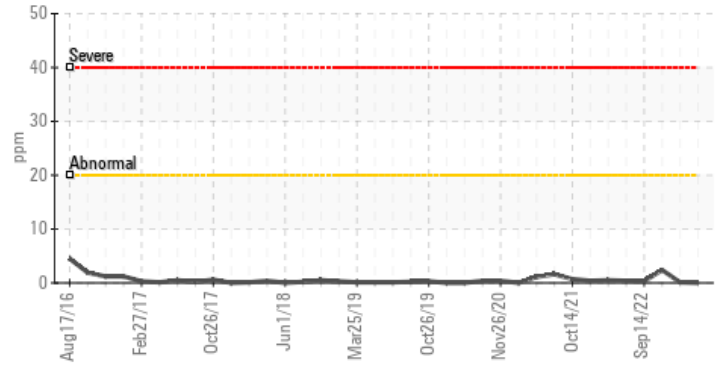


## GRAPHS

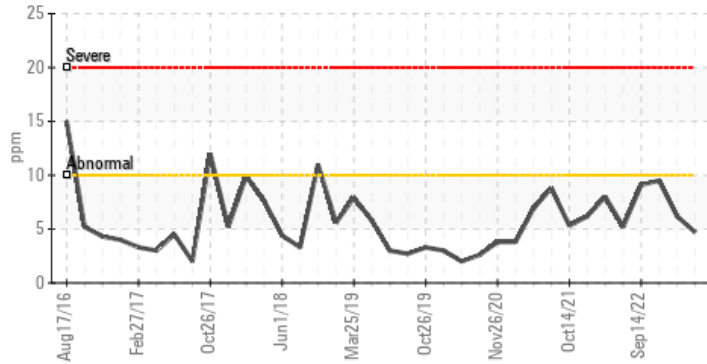
### Iron (ppm)



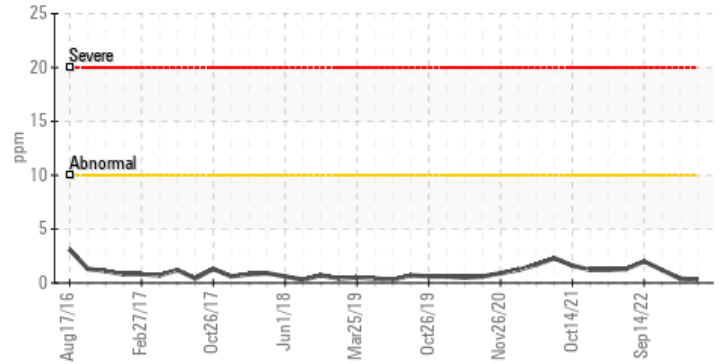
### Lead (ppm)



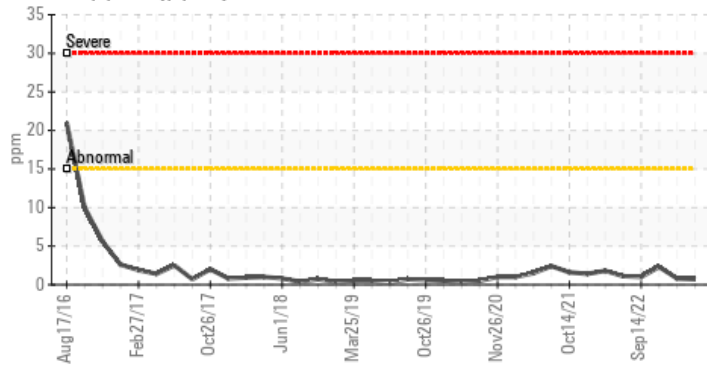
### Aluminum (ppm)



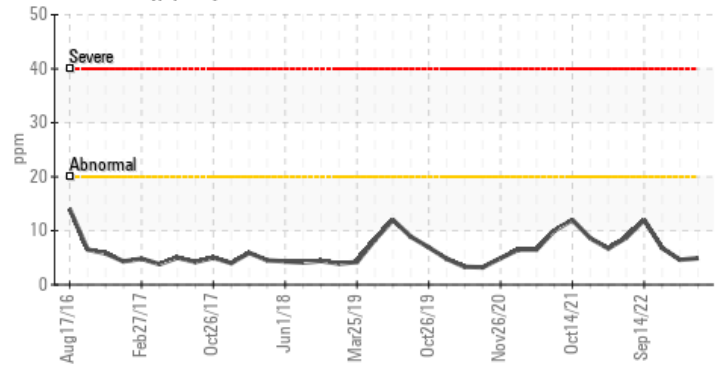
### Chromium (ppm)



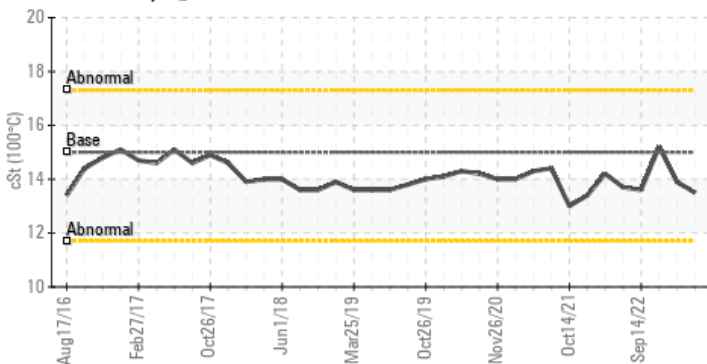
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Soot %

