



# CONSTRUCTION EQUIPMENT

371538 VOLVO L120H 632541 - DIESEL ENGINE



**Sample No:** VCP394707  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 371538



## SAMPLE INFORMATION

Sample Number	<b>VCP394707</b>	VCP394593	VCP381816	VCP353118
Sample Date	<b>11 Aug 2023</b>	30 Jun 2023	10 May 2023	08 Mar 2023
Machine Hours	<b>12233</b>	11551	10842	9759
Oil Hours	<b>500</b>	500	400	700
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**STRONGCO EQUIP (AB)**  
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 CA T4S 2L4  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.5	13.4	14.2
Oxidation (PA)	%	<b>76</b>	87	80	76

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.5</b>	0.6	0.2	0.7
Nitration (PA)	%	<b>59</b>	63	49	72
Sulfation (PA)	%	<b>64</b>	66	64	69
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	4	7
Sodium	ppm	<b>3</b>	3	2	3
Potassium	ppm	<b>1</b>	0	0	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>9</b>	11	6	24
Copper	ppm	<b>&lt;1</b>	<1	<1	2
Lead	ppm	<b>&lt;1</b>	0	<1	2
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>6</b>	7	4	12
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>41</b>	41	39	43
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1700</b>	1740	1740	1841
Magnesium	ppm	<b>517</b>	521	487	532
Zinc	ppm	<b>1095</b>	1104	1057	1124
Phosphorus	ppm	<b>984</b>	979	996	1019
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>29</b>	31	48	34

**Depot:** VOLVO9652  
**Unique No:** 5628928  
**Signed:** Wes Davis  
**Report Date:** 04 Jan 2024



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## GRAPHS

