



# CONSTRUCTION EQUIPMENT

## VOLVO L120H 632540 - DIESEL ENGINE



**Sample No:** VCP455175  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP455175</b>	VCP454251	VCP445823	VCP442670
Sample Date	<b>24 Apr 2024</b>	29 Mar 2024	28 Feb 2024	22 Jan 2024
Machine Hours	<b>16240</b>	15812	15301	14655
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT COMPANY**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.1	13.2	13.0
Base Number (BN)	mg KOH/g	<b>10.2</b>	10.4	9.8	9.4
Oxidation (PA)	%	<b>81</b>	83	83	87



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.3	0.4	0.6
Nitration (PA)	%	<b>56</b>	59	67	80
Sulfation (PA)	%	<b>62</b>	62	61	63
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	5
Sodium	ppm	<b>2</b>	2	2	3
Potassium	ppm	<b>2</b>	0	1	2



### WEAR METALS

Iron	ppm	<b>8</b>	9	10	17
Copper	ppm	<b>&lt;1</b>	1	1	3
Lead	ppm	<b>0</b>	<1	<1	2
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>4</b>	4	6	9
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>39</b>	42	42	49
Nickel	ppm	<b>0</b>	0	<1	1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	<1	<1



### ADDITIVES

Calcium	ppm	<b>1613</b>	1824	1651	1676
Magnesium	ppm	<b>491</b>	530	559	536
Zinc	ppm	<b>1109</b>	1110	1210	1177
Phosphorus	ppm	<b>953</b>	925	972	1008
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>40</b>	31	26	24

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

**Depot:** VOLVO0090  
**Unique No:** 11004817  
**Signed:** Wes Davis  
**Report Date:** 01 May 2024

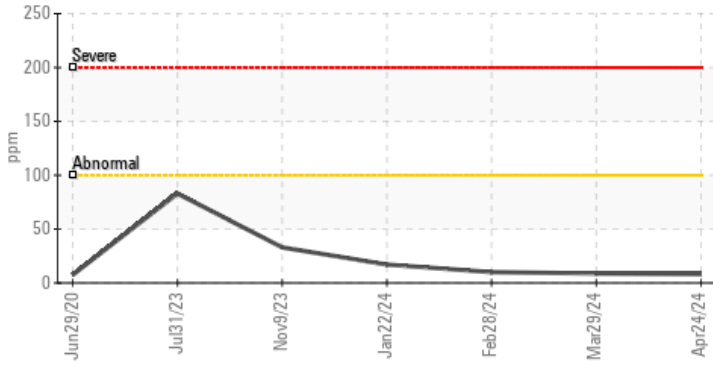


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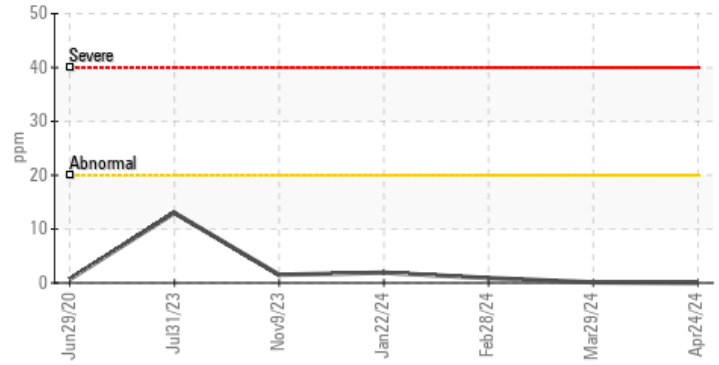


## GRAPHS

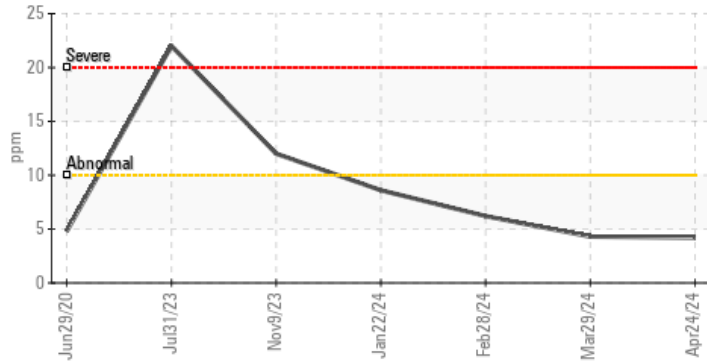
### Iron (ppm)



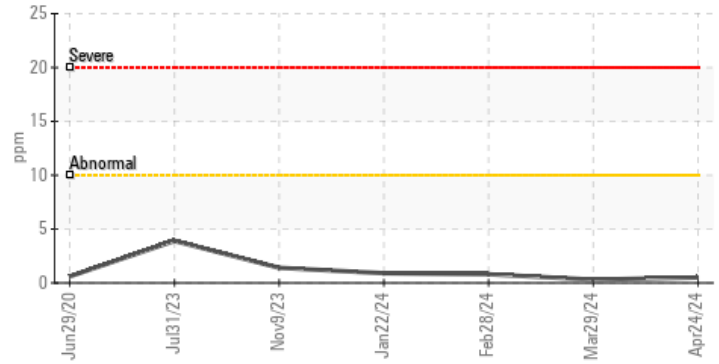
### Lead (ppm)



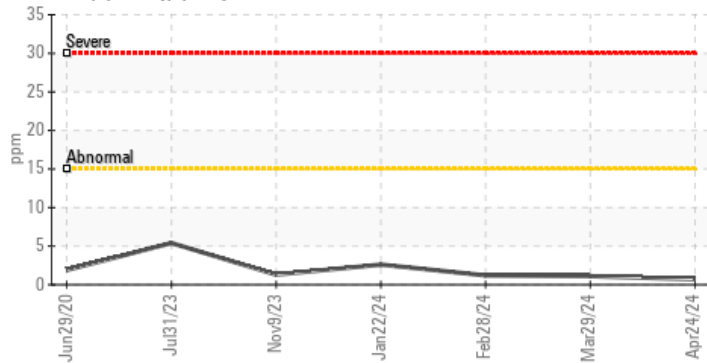
### Aluminum (ppm)



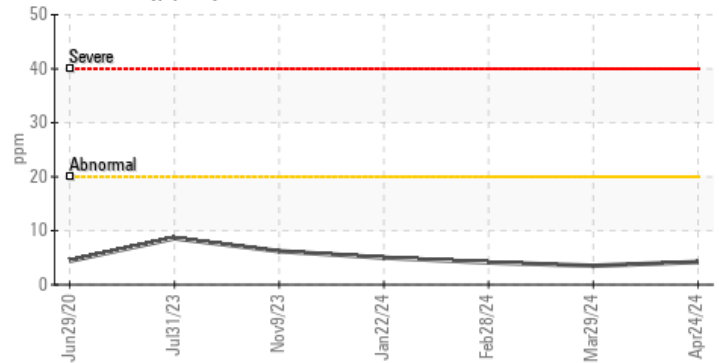
### Chromium (ppm)



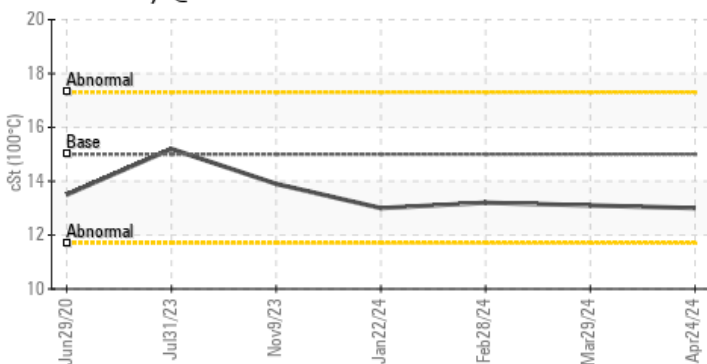
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

