



# CONSTRUCTION EQUIPMENT

## VOLVO L150H 6972 - DIESEL ENGINE



**Sample No:** VCP0007362

**Oil Type:** DIESEL ENGINE OIL SAE 40

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP0007362</b>	VCP0007493	VCP0007535	VCP0007549
Sample Date	<b>25 Sep 2023</b>	06 Sep 2023	12 Jun 2023	21 Apr 2023
Machine Hours	<b>6690</b>	4999	4999	4999
Oil Hours	<b>1903</b>	1224	1224	1860
Oil Changed	<b>N/A</b>	N/A	N/A	N/A
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	ATTENTION

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

Visc @ 100°C	cSt	<b>▲ 12.2</b>	■ 12.9	■ 13.0	<b>▲ 12.3</b>
Base Number (BN)	mg KOH/g	<b>■ 10.2</b>	■ 10.4	■ 9.8	■ 9.7
Oxidation (PA)	%	<b>84</b>	76	86	78



### CONTAMINATION

Soot %	%	<b>■ 0.2</b>	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	<b>62</b>	55	58	61
Sulfation (PA)	%	<b>61</b>	57	61	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>■ 0.3</b>	<1.0	<1.0	■ 0.4
Silicon	ppm	<b>■ 6</b>	■ 4	■ 5	■ 3
Sodium	ppm	<b>■ 5</b>	■ 2	■ 2	■ 2
Potassium	ppm	<b>■ 29</b>	■ <1	■ 2	■ 0



### WEAR METALS

Iron	ppm	<b>■ 27</b>	■ 3	■ 4	■ 4
Copper	ppm	<b>▲ 33</b>	■ <1	■ <1	■ 2
Lead	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ 0
Tin	ppm	<b>■ 1</b>	■ <1	■ <1	■ 0
Aluminum	ppm	<b>■ 11</b>	■ 2	■ 2	■ 1
Chromium	ppm	<b>■ 2</b>	■ 0	■ <1	■ <1
Molybdenum	ppm	<b>■ 40</b>	■ 41	■ 43	■ 44
Nickel	ppm	<b>■ 0</b>	■ 0	■ <1	■ 0
Titanium	ppm	<b>■ 26</b>	■ 0	■ 0	■ 0
Silver	ppm	<b>■ &lt;1</b>	■ 0	■ 0	■ 0
Manganese	ppm	<b>■ 2</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>&lt;1</b>	<1	<1	0



### ADDITIVES

Calcium	ppm	<b>■ 1342</b>	■ 1814	■ 1682	■ 1712
Magnesium	ppm	<b>■ 769</b>	■ 580	■ 558	■ 523
Zinc	ppm	<b>■ 1190</b>	■ 1200	■ 1235	■ 1143
Phosphorus	ppm	<b>■ 919</b>	■ 988	■ 1003	■ 957
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 10</b>	■ 40	■ 37	■ 38

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO0092  
**Unique No:** 10670539  
**Signed:** Jonathan Hester  
**Report Date:** 02 Oct 2023



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## GRAPHS

