



# CONSTRUCTION EQUIPMENT

## VOLVO L150H 6989 - DIESEL ENGINE



**Sample No:** VCP407074  
**Oil Type:** VALVOLINE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP407074</b>	VCP431297	VCP411567	---
Sample Date	<b>15 Dec 2023</b>	17 Nov 2023	02 Oct 2023	---
Machine Hours	<b>5961</b>	5752	5387	---
Oil Hours	<b>0</b>	365	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.3</b>	12.9	12.8	---
Base Number (BN)	mg KOH/g	<b>7.0</b>	8.3	7.7	---
Oxidation (PA)	%	<b>37</b>	54	82	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.3	---
Nitration (PA)	%	<b>48</b>	56	76	---
Sulfation (PA)	%	<b>43</b>	50	59	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>0.6</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	7	13	---
Sodium	ppm	<b>&lt;1</b>	2	4	---
Potassium	ppm	<b>2</b>	2	<1	---



### WEAR METALS

Iron	ppm	<b>&lt;1</b>	2	10	---
Copper	ppm	<b>0</b>	<1	3	---
Lead	ppm	<b>0</b>	<1	1	---
Tin	ppm	<b>&lt;1</b>	<1	2	---
Aluminum	ppm	<b>1</b>	1	2	---
Chromium	ppm	<b>0</b>	0	<1	---
Molybdenum	ppm	<b>45</b>	31	46	---
Nickel	ppm	<b>0</b>	<1	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1880</b>	1883	1635	---
Magnesium	ppm	<b>170</b>	245	432	---
Zinc	ppm	<b>931</b>	954	1085	---
Phosphorus	ppm	<b>729</b>	866	910	---
Barium	ppm	<b>&lt;1</b>	0	0	---
Boron	ppm	<b>27</b>	25	25	---

**Depot:** CITMILCON  
**Unique No:** 10796393  
**Signed:** Wes Davis  
**Report Date:** 26 Dec 2023



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## GRAPHS

