



# CONSTRUCTION EQUIPMENT

## 1292 VOLVO L150H 7133 - DIESEL ENGINE



**Sample No:** VCP441713  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 1292



### SAMPLE INFORMATION

Sample Number	<b>VCP441713</b>	VCP424191	VCP409321	---
Sample Date	<b>15 Nov 2023</b>	13 Sep 2023	06 Mar 2023	---
Machine Hours	<b>2038</b>	1559	504	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	---

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
 8594 FRUITRIDGE ROAD  
 SACRAMENTO, CA  
 US 95826  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.5	▲ 11.0	---
Base Number (BN)	mg KOH/g	<b>9.6</b>	7.5	6.5	---
Oxidation (PA)	%	<b>82</b>	80	62	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>55</b>	73	80	---
Sulfation (PA)	%	<b>63</b>	60	54	---
Glycol	%	<b>0.0</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.6	---
Silicon	ppm	<b>4</b>	10	25	---
Sodium	ppm	<b>3</b>	2	2	---
Potassium	ppm	<b>&lt;1</b>	0	4	---



### WEAR METALS

Iron	ppm	<b>&lt;1</b>	7	10	---
Copper	ppm	<b>46</b>	▲ 301	▲ 204	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>&lt;1</b>	<1	2	---
Aluminum	ppm	<b>&lt;1</b>	0	3	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>36</b>	40	80	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	3	---
Vanadium	ppm	<b>0</b>	0	<1	---



### ADDITIVES

Calcium	ppm	<b>1533</b>	1740	2076	---
Magnesium	ppm	<b>471</b>	493	58	---
Zinc	ppm	<b>1037</b>	1084	1131	---
Phosphorus	ppm	<b>879</b>	839	952	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>34</b>	31	49	---

### 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:** VOLVO4485  
**Unique No:** 10764762  
**Signed:** Wes Davis  
**Report Date:** 01 Dec 2023



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## GRAPHS

