



# CONSTRUCTION EQUIPMENT

SW1027650 HERC VOLVO L110H 632550 - DIESEL ENGINE



**Sample No:** VCP415123  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SW1027650 HERC



## SAMPLE INFORMATION

Sample Number	VCP415123	---	---	---
Sample Date	13 Dec 2023	---	---	---
Machine Hours	514	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	█ 12.4	---	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	71	---	---	---

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	52	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 14	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 5	---	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other metal levels are typical for a new component breaking in. 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 acceptable for the time in service.

## WEAR METALS

Iron	ppm	█ 22	---	---	---
Copper	ppm	█ 11	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	▲ 45	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 44	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 1	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	█ 1388	---	---	---
Magnesium	ppm	█ 610	---	---	---
Zinc	ppm	█ 1115	---	---	---
Phosphorus	ppm	█ 930	---	---	---
Barium	ppm	█ 12	---	---	---
Boron	ppm	█ 75	---	---	---

**Depot:** VOLVO6174  
**Unique No:** 10795614  
**Signed:** Don Baldrige  
**Report Date:** 21 Dec 2023



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## GRAPHS

