



# CONSTRUCTION EQUIPMENT

57978 ENDURANCE VOLVO L110H 631866 - DIESEL ENGINE



**Sample No:** VCP0007150  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** 57978 ENDURANCE



## SAMPLE INFORMATION

Sample Number	VCP0007150	---	---	---
Sample Date	29 Jun 2023	---	---	---
Machine Hours	5973	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	█ 13.66	---	---	---
Base Number (BN)	mg KOH/g	█ 4.9	---	---	---
Oxidation (PA)	%	78	---	---	---

## Diagnosis

The oil 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 component wear rates are normal. Elemental level of silicon (Si) above normal. 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.



## CONTAMINATION

Soot %	%	█ 1.1	---	---	---
Nitration (PA)	%	90	---	---	---
Sulfation (PA)	%	66	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 22	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 2	---	---	---



## WEAR METALS

Iron	ppm	█ 53	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	▲ 23	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 59	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 25	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	█ 1981	---	---	---
Magnesium	ppm	█ 519	---	---	---
Zinc	ppm	█ 1434	---	---	---
Phosphorus	ppm	█ 1144	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 27	---	---	---

**Depot:** VOLVO0016  
**Unique No:** 10539932  
**Signed:** Don Baldrige  
**Report Date:** 07 Jul 2023



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## GRAPHS

