



# CONSTRUCTION EQUIPMENT

A12676 VOLVO L120H 633555 - DIESEL ENGINE



**Sample No:** VCP449576  
**Oil Type:** MOBIL 15W40  
**Job No:** A12676



## SAMPLE INFORMATION

Sample Number	VCP449576	VCP430944	---	---
Sample Date	15 May 2024	04 Apr 2024	---	---
Machine Hours	1870	1325	---	---
Oil Hours	5200	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

**HOFFMAN EQUIPMENT - LIONVILLE**  
 120 GORDON DRIVE  
 LIONVILLE, PA  
 US 19341  
 Contact: JIM FEHR  
 jim.fehr@hoffmanequip.com  
 T: (610)363-9200  
 F: (610)594-0829



## OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	▲ 12.2	---	---
Base Number (BN)	mg KOH/g	█ 6.3	█ 7.9	---	---
Oxidation (PA)	%	50	78	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.6	█ 0.3	---	---
Nitration (PA)	%	71	69	---	---
Sulfation (PA)	%	53	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.3	---	---
Silicon	ppm	█ 6	█ 8	---	---
Sodium	ppm	█ 22	█ 4	---	---
Potassium	ppm	█ 4	█ <1	---	---



## WEAR METALS

Iron	ppm	█ 13	█ 25	---	---
Copper	ppm	█ 4	▲ 26	---	---
Lead	ppm	█ <1	█ 4	---	---
Tin	ppm	█ 1	█ 2	---	---
Aluminum	ppm	█ 2	▲ 24	---	---
Chromium	ppm	█ 1	█ 2	---	---
Molybdenum	ppm	█ 19	█ 44	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	2	<1	---	---
Silver	ppm	█ 1	█ <1	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	<1	<1	---	---



## ADDITIVES

Calcium	ppm	█ 2224	█ 1495	---	---
Magnesium	ppm	█ 188	█ 516	---	---
Zinc	ppm	█ 1140	█ 947	---	---
Phosphorus	ppm	█ 913	█ 872	---	---
Barium	ppm	█ <1	10	---	---
Boron	ppm	█ 10	█ 75	---	---

## 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:** VOLVO8879  
**Unique No:** 11048562  
**Signed:** Wes Davis  
**Report Date:** 29 May 2024



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## GRAPHS

