



# CONSTRUCTION EQUIPMENT

## RA87 VOLVO L70H 624378 - DIESEL ENGINE



**Sample No:** VCP374204  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** RA87



### SAMPLE INFORMATION

Sample Number	VCP374204	---	---	---
Sample Date	20 Nov 2023	---	---	---
Machine Hours	984	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 8.5	---	---	---
Oxidation (PA)	%	76	---	---	---

### Diagnosis

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. 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	%	NEG	---	---	---
Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	76	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 21	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 3	---	---	---



### WEAR METALS

Iron	ppm	█ 65	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	▲ 77	---	---	---
Chromium	ppm	█ 8	---	---	---
Molybdenum	ppm	█ 40	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 5	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	█ 1436	---	---	---
Magnesium	ppm	█ 633	---	---	---
Zinc	ppm	█ 1146	---	---	---
Phosphorus	ppm	█ 1033	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 32	---	---	---

**Depot:** VOLVO0080  
**Unique No:** 10756823  
**Signed:** Jonathan Hester  
**Report Date:** 29 Nov 2023



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## GRAPHS

