



# CONSTRUCTION EQUIPMENT

## VOLVO L70H 624550 - DIESEL ENGINE



**Sample No:** VCP428620  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP428620</b>	VCP431712	VCP323819	---
Sample Date	<b>17 Jul 2024</b>	14 Dec 2023	08 Sep 2023	---
Machine Hours	<b>6669</b>	5254	4508	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.2	13.4	---
Base Number (BN)	mg KOH/g	<b>8.9</b>	10.1	9.9	---
Oxidation (PA)	%	<b>86</b>	86	81	---

### 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.4</b>	0.5	0.4	---
Nitration (PA)	%	<b>78</b>	74	70	---
Sulfation (PA)	%	<b>64</b>	62	60	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>6</b>	6	6	---
Sodium	ppm	<b>3</b>	2	4	---
Potassium	ppm	<b>0</b>	<1	1	---



### WEAR METALS

Iron	ppm	<b>42</b>	53	57	---
Copper	ppm	<b>2</b>	<1	3	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>0</b>	1	<1	---
Aluminum	ppm	<b>3</b>	4	5	---
Chromium	ppm	<b>&lt;1</b>	1	2	---
Molybdenum	ppm	<b>44</b>	53	47	---
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	1	---
Vanadium	ppm	<b>0</b>	0	<1	---



### ADDITIVES

Calcium	ppm	<b>1778</b>	1684	1969	---
Magnesium	ppm	<b>517</b>	542	616	---
Zinc	ppm	<b>1113</b>	1152	1249	---
Phosphorus	ppm	<b>928</b>	931	995	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>15</b>	26	26	---

**Depot:** VOLVO0090  
**Unique No:** 11130124  
**Signed:** Wes Davis  
**Report Date:** 20 Jul 2024



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## GRAPHS

