



# CONSTRUCTION EQUIPMENT

## 6552 VOLVO L70H 624299 - DIESEL ENGINE



**Sample No:** VCP421287  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 6552



### SAMPLE INFORMATION

Sample Number	<b>VCP421287</b>	VCP370487	VCP333025	---
Sample Date	<b>05 May 2023</b>	03 Jan 2023	18 Jul 2022	---
Machine Hours	<b>2489</b>	2112	1451	---
Oil Hours	<b>0</b>	2000	500	---
Oil Changed	<b>Changed</b>	N/A	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**364 - ASCENDUM MACHINERY INC - MACON**  
 4807 HARRISON RD  
 MACON, GA  
 US 31206  
 Contact: HALIE BAKER  
 halie.baker@ascendummachinery.com  
 T:  
 F: (478)200-5859

### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	13.3	13.3	---
Base Number (BN)	mg KOH/g	<b>11.1</b>	11.1	11.6	---
Oxidation (PA)	%	<b>83</b>	81	86	---

### CONTAMINATION

Soot %	%	<b>0.4</b>	0.6	0.8	---
Nitration (PA)	%	<b>59</b>	67	68	---
Sulfation (PA)	%	<b>63</b>	62	68	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	7	7	---
Sodium	ppm	<b>3</b>	2	0	---
Potassium	ppm	<b>1</b>	0	1	---

### 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.

### WEAR METALS

Iron	ppm	<b>9</b>	17	20	---
Copper	ppm	<b>&lt;1</b>	<1	1	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>0</b>	<1	<1	---
Aluminum	ppm	<b>2</b>	5	5	---
Chromium	ppm	<b>&lt;1</b>	1	1	---
Molybdenum	ppm	<b>43</b>	42	42	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>0</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>1822</b>	1729	1642	---
Magnesium	ppm	<b>552</b>	508	480	---
Zinc	ppm	<b>1238</b>	1159	1105	---
Phosphorus	ppm	<b>1006</b>	935	938	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>58</b>	33	41	---

**Depot:** ASCMAC  
**Unique No:** 10536802  
**Signed:** Wes Davis  
**Report Date:** 02 Jul 2023



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## GRAPHS

