



# CONSTRUCTION EQUIPMENT

## 7151 GA STAR LANDSCA VOLVO L90H 624364 - DIESEL ENGINE



**Sample No:** VCP434658  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 7151 GA STAR LANDSCA



### SAMPLE INFORMATION

Sample Number	<b>VCP434658</b>	VCP370489	VCP388620	---
Sample Date	<b>29 Nov 2023</b>	16 Dec 2022	27 Oct 2022	---
Machine Hours	<b>8188</b>	5021	4700	---
Oil Hours	<b>0</b>	1000	4000	---
Oil Changed	<b>Changed</b>	N/A	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**364 - ASCENDUM MACHINERY INC - MACON**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.0</b>	13.1	13.4	---
Base Number (BN)	mg KOH/g	<b>9.4</b>	11.0	12.4	---
Oxidation (PA)	%	<b>94</b>	82	86	---

### 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>0.5</b>	0.2	0.3	---
Nitration (PA)	%	<b>85</b>	60	74	---
Sulfation (PA)	%	<b>66</b>	62	65	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>8</b>	8	7	---
Sodium	ppm	<b>&lt;1</b>	3	3	---
Potassium	ppm	<b>5</b>	<1	0	---



### WEAR METALS

Iron	ppm	<b>23</b>	11	19	---
Copper	ppm	<b>2</b>	1	2	---
Lead	ppm	<b>&lt;1</b>	<1	3	---
Tin	ppm	<b>1</b>	<1	2	---
Aluminum	ppm	<b>5</b>	5	7	---
Chromium	ppm	<b>1</b>	<1	1	---
Molybdenum	ppm	<b>66</b>	48	52	---
Nickel	ppm	<b>&lt;1</b>	0	<1	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1708</b>	1950	1794	---
Magnesium	ppm	<b>534</b>	593	580	---
Zinc	ppm	<b>1146</b>	1336	1196	---
Phosphorus	ppm	<b>912</b>	1078	1002	---
Barium	ppm	<b>11</b>	0	0	---
Boron	ppm	<b>60</b>	44	48	---

**Depot:** ASCMAC  
**Unique No:** 10782865  
**Signed:** Wes Davis  
**Report Date:** 14 Dec 2023



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## GRAPHS

