



# CONSTRUCTION EQUIPMENT

## SUNRISE DAIRY VOLVO L70H 623995 - DIESEL ENGINE



**Sample No:** VCP415379  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SUNRISE DAIRY



### SAMPLE INFORMATION

Sample Number	<b>VCP415379</b>	VCP400405	VCP398257	---
Sample Date	<b>16 Oct 2023</b>	21 Mar 2023	09 Feb 2023	---
Machine Hours	<b>14395</b>	11774	11267	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	---
Sample Status	<b>NORMAL</b>	NORMAL	SEVERE	---



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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.5</b>	13.9	▲ 11.4	---
Base Number (BN)	mg KOH/g	<b>7.2</b>	9.3	6.6	---
Oxidation (PA)	%	<b>59</b>	69	73	---



### CONTAMINATION

Soot %	%	<b>0.2</b>	0.5	0.7	---
Nitration (PA)	%	<b>66</b>	74	88	---
Sulfation (PA)	%	<b>53</b>	58	58	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	1.7	10.4	---
Silicon	ppm	<b>8</b>	5	4	---
Sodium	ppm	<b>1</b>	3	2	---
Potassium	ppm	<b>2</b>	1	<1	---



### WEAR METALS

Iron	ppm	<b>2</b>	10	6	---
Copper	ppm	<b>0</b>	<1	<1	---
Lead	ppm	<b>&lt;1</b>	0	<1	---
Tin	ppm	<b>&lt;1</b>	<1	<1	---
Aluminum	ppm	<b>3</b>	2	2	---
Chromium	ppm	<b>&lt;1</b>	1	<1	---
Molybdenum	ppm	<b>78</b>	61	77	---
Nickel	ppm	<b>&lt;1</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>2195</b>	1295	1997	---
Magnesium	ppm	<b>63</b>	785	40	---
Zinc	ppm	<b>1298</b>	1243	1090	---
Phosphorus	ppm	<b>1058</b>	1034	890	---
Barium	ppm	<b>0</b>	2	0	---
Boron	ppm	<b>75</b>	10	55	---

### 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:** VOLVO6174  
**Unique No:** 10708799  
**Signed:** Wes Davis  
**Report Date:** 24 Oct 2023



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## GRAPHS

