



# CONSTRUCTION EQUIPMENT

1027787 CUSTOM LANDS VOLVO L350H 1103 - DIESEL ENGINE



**Sample No:** VCP437817  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 1027787 CUSTOM LANDS



**ARNOLD MACHINERY COMPANY**  
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## SAMPLE INFORMATION

Sample Number	VCP437817	VCP339137	---	---
Sample Date	06 May 2024	29 Oct 2021	---	---
Machine Hours	7020	4320	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	ABNORMAL	NORMAL	---	---



## OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	█ 13.3	---	---
Base Number (BN)	mg KOH/g	█ 9.1	---	---	---
Oxidation (PA)	%	81	78	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.5	█ 0.1	---	---
Nitration (PA)	%	61	43	---	---
Sulfation (PA)	%	61	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	▲ 39	█ 8	---	---
Sodium	ppm	█ 4	█ 2	---	---
Potassium	ppm	█ 6	█ 3	---	---



## WEAR METALS

Iron	ppm	█ 42	█ 4	---	---
Copper	ppm	█ 9	█ 6	---	---
Lead	ppm	█ 2	█ <1	---	---
Tin	ppm	█ 4	█ <1	---	---
Aluminum	ppm	█ 4	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 42	█ 41	---	---
Nickel	ppm	█ 2	█ <1	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	<1	---	---
Manganese	ppm	█ 2	█ <1	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	█ 1694	█ 1689	---	---
Magnesium	ppm	█ 475	█ 507	---	---
Zinc	ppm	█ 1064	█ 1097	---	---
Phosphorus	ppm	█ 920	█ 976	---	---
Barium	ppm	█ <1	█ 0	---	---
Boron	ppm	█ 40	█ 81	---	---

## Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO6174  
**Unique No:** 11021137  
**Signed:** Don Baldrige  
**Report Date:** 13 May 2024



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## GRAPHS

