



# CONSTRUCTION EQUIPMENT

SPM578631 VOLVO L350 1138 - REAR AXLE



**Sample No:** VCP351477  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** SPM578631



## SAMPLE INFORMATION

Sample Number	<b>VCP351477</b>	VCP395471	VCP376838	VCP359462
Sample Date	<b>11 Aug 2023</b>	25 Apr 2023	23 Jul 2022	18 Apr 2022
Machine Hours	<b>4582</b>	3754	2667	1914
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	Not Changd	N/A	N/A
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	ATTENTION

## ALTA EQUIPMENT

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 SYRACUSE, NY  
 US 13206  
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## OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 43.9</b>	▲ 43.5	▲ 44.0	▲ 43.6
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## CONTAMINATION

Silicon	ppm	<b>■ 17</b>	■ 22	■ 18	■ 17
Sodium	ppm	<b>■ 4</b>	■ 4	■ 8	■ 8
Potassium	ppm	<b>■ &lt;1</b>	■ 0	■ 0	■ 0



## WEAR METALS

Iron	ppm	<b>■ 228</b>	■ 218	■ 269	■ 303
Copper	ppm	<b>■ 1</b>	■ 1	■ 2	■ <1
Lead	ppm	<b>■ &lt;1</b>	■ 0	■ <1	■ 0
Tin	ppm	<b>■ &lt;1</b>	■ 0	■ <1	■ 0
Aluminum	ppm	<b>■ 3</b>	■ 2	■ 3	■ 1
Chromium	ppm	<b>■ 1</b>	■ <1	■ <1	■ 0
Molybdenum	ppm	<b>■ 0</b>	■ <1	■ <1	■ 0
Nickel	ppm	<b>■ &lt;1</b>	■ 0	■ 0	■ 0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>■ 3</b>	■ 3	■ 3	■ 2
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>■ 3962</b>	■ 4113	■ 3858	■ 4335
Magnesium	ppm	<b>■ 18</b>	■ 19	■ 14	■ 15
Zinc	ppm	<b>■ 1638</b>	■ 1650	■ 1522	■ 1632
Phosphorus	ppm	<b>■ 1301</b>	■ 1324	■ 1262	■ 1428
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 132</b>	■ 151	■ 140	■ 135

## 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 oil viscosity is lower than normal. Confirm oil type.

**Depot:** VOLVO0142  
**Unique No:** 10606367  
**Signed:** Don Baldrige  
**Report Date:** 17 Aug 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

