



# CONSTRUCTION EQUIPMENT

## 383709 TERRAMAC RT14R 14RH00107 - FRONT LEFT FINAL DRIVE



**Sample No:** VCP435077  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** 383709



### SAMPLE INFORMATION

Sample Number	<b>VCP435077</b>	VCP395405	---	---
Sample Date	<b>11 Oct 2023</b>	17 Jul 2023	---	---
Machine Hours	<b>2355</b>	4312	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	N/A	---	---
Sample Status	<b>SEVERE</b>	SEVERE	---	---

### ALTA EQUIPMENT

5985 COURT STREET ROAD  
 SYRACUSE, NY  
 US 13206  
 Contact: JIM STRIGLE  
 JIM.STRIGLE@ALTG.COM  
 T: (315)437-2611  
 F: (315)434-9471



### OIL CONDITION

Visc @ 40°C	cSt	<b>209</b>	221	---	---
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### CONTAMINATION

Silicon	ppm	<b>▲ 190</b>	631	---	---
Sodium	ppm	<b>■ 5</b>	22	---	---
Potassium	ppm	<b>■ 10</b>	36	---	---



### WEAR METALS

Iron	ppm	<b>● 2131</b>	4564	---	---
Copper	ppm	<b>● 641</b>	1968	---	---
Lead	ppm	<b>■ 0</b>	17	---	---
Tin	ppm	<b>▲ 13</b>	38	---	---
Aluminum	ppm	<b>▲ 28</b>	98	---	---
Chromium	ppm	<b>● 34</b>	68	---	---
Molybdenum	ppm	<b>▲ 229</b>	229	---	---
Nickel	ppm	<b>■ 2</b>	4	---	---
Titanium	ppm	<b>3</b>	9	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>■ 14</b>	30	---	---
Vanadium	ppm	<b>&lt;1</b>	2	---	---



### ADDITIVES

Calcium	ppm	<b>■ 80</b>	204	---	---
Magnesium	ppm	<b>■ 9</b>	39	---	---
Zinc	ppm	<b>■ 19</b>	38	---	---
Phosphorus	ppm	<b>■ 528</b>	989	---	---
Barium	ppm	<b>■ 1</b>	15	---	---
Boron	ppm	<b>■ 31</b>	100	---	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data. Gear wear is indicated. Bearing and/or bushing wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VOLV00142  
**Unique No:** 10697329  
**Signed:** Don Baldrige  
**Report Date:** 18 Oct 2023



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## GRAPHS

