



# CONSTRUCTION EQUIPMENT

## TERRAMAC RT14R 14RH00105 - FRONT RIGHT FINAL DRIVE



**Sample No:** VCP435062  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP435062</b>	VCP368613	VCP284706	---
Sample Date	<b>15 Apr 2024</b>	12 Apr 2023	18 Jun 2020	---
Machine Hours	<b>2616</b>	2320	1108	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	Changed	Changed	---
Sample Status	<b>SEVERE</b>	SEVERE	SEVERE	---

### ALTA EQUIPMENT

5985 COURT STREET ROAD  
 SYRACUSE, NY  
 US 13206  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>238</b>	216	182	---
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### CONTAMINATION

Water	%	<b>0.308</b>	0.289	NEG	---
Silicon	ppm	<b>894</b>	2309	99	---
Sodium	ppm	<b>27</b>	60	13	---
Potassium	ppm	<b>59</b>	162	10	---



### WEAR METALS

Iron	ppm	<b>8010</b>	8675	1434	---
Copper	ppm	<b>9974</b>	8736	818	---
Lead	ppm	<b>3</b>	87	<1	---
Tin	ppm	<b>1446</b>	1000	21	---
Aluminum	ppm	<b>165</b>	433	23	---
Chromium	ppm	<b>68</b>	112	18	---
Molybdenum	ppm	<b>399</b>	323	235	---
Nickel	ppm	<b>54</b>	11	<1	---
Titanium	ppm	<b>16</b>	40	2	---
Silver	ppm	<b>1</b>	0	0	---
Manganese	ppm	<b>65</b>	57	8	---
Vanadium	ppm	<b>1</b>	2	0	---



### ADDITIVES

Calcium	ppm	<b>200</b>	574	70	---
Magnesium	ppm	<b>49</b>	118	10	---
Zinc	ppm	<b>69</b>	75	32	---
Phosphorus	ppm	<b>1235</b>	1202	787	---
Barium	ppm	<b>11</b>	9	47	---
Boron	ppm	<b>161</b>	146	23	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Bearing and/or bushing wear is indicated. Generally an abnormal to severe rate of wear throughout the component. There is a light concentration of water present in the oil. 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:** 10990230  
**Signed:** Don Baldrige  
**Report Date:** 23 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

