



# CONSTRUCTION EQUIPMENT

## VOLVO G960 43149 - REAR AXLE



**Sample No:** VCP394094  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP394094	---	---	---
Sample Date	26 Feb 2024	---	---	---
Machine Hours	6405	---	---	---
Oil Hours	6405	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

**STRONGCO EQUIP (AB)**  
 6 - 38403 BURNT LAKE TRAIL  
 RED DEER COUNTY, AB  
 CA T4S 2L4  
 Contact: Perry Doyle  
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 T: (403)391-3520  
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### OIL CONDITION

Visc @ 40°C	cSt	▲ 67.7	---	---	---
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### CONTAMINATION

Water	%	▲ 1.183	---	---	---
Silicon	ppm	■ 39	---	---	---
Sodium	ppm	■ 7	---	---	---
Potassium	ppm	■ 2	---	---	---

### WEAR METALS

PQ		■ 917	---	---	---
Iron	ppm	▲ 1210	---	---	---
Copper	ppm	▲ 851	---	---	---
Lead	ppm	■ 23	---	---	---
Tin	ppm	▲ 14	---	---	---
Aluminum	ppm	■ 16	---	---	---
Chromium	ppm	▲ 12	---	---	---
Molybdenum	ppm	● 39	---	---	---
Nickel	ppm	▲ 29	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 15	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	● 3335	---	---	---
Magnesium	ppm	■ 11	---	---	---
Zinc	ppm	● 1421	---	---	---
Phosphorus	ppm	● 1232	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 84	---	---	---

**Diagnosis**

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Chromium, copper, iron, nickel and tin ppm levels are abnormal. Bearing and/or bushing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a high concentration of water present in the oil. The white residue present in the sample is oil additive precipitate. Viscosity of sample indicates oil is within SAE 80 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** VOLVO9652  
**Unique No:** 5735550  
**Signed:** Kevin Marson  
**Report Date:** 28 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

