



# CONSTRUCTION EQUIPMENT

SPM620877-10 BONACCI VOLVO EC350 3 10252 - REAR LEFT FINAL DRIVE



**Sample No:** VCP409103  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM620877-10 BONACCI



**ALTA EQUIPMENT COMPANY - METRO WEST**  
56195 PONTIAC TRAIL  
NEW HUDSON, MI  
US 48165  
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## SAMPLE INFORMATION

Sample Number	VCP409103	---	---	---
Sample Date	25 Oct 2023	---	---	---
Machine Hours	5195	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---



## OIL CONDITION

Visc @ 40°C	cSt	▲ 68.1	---	---	---
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## CONTAMINATION

Water	%	■ 0.125	---	---	---
Silicon	ppm	◆ 2190	---	---	---
Sodium	ppm	■ 48	---	---	---
Potassium	ppm	■ 126	---	---	---



## WEAR METALS

Iron	ppm	◆ 4052	---	---	---
Copper	ppm	■ 22	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	▲ 268	---	---	---
Chromium	ppm	◆ 42	---	---	---
Molybdenum	ppm	■ 5	---	---	---
Nickel	ppm	■ 6	---	---	---
Titanium	ppm	■ 14	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 24	---	---	---
Vanadium	ppm	■ 0	---	---	---



## ADDITIVES

Calcium	ppm	■ 392	---	---	---
Magnesium	ppm	■ 69	---	---	---
Zinc	ppm	■ 388	---	---	---
Phosphorus	ppm	■ 551	---	---	---
Barium	ppm	■ 3	---	---	---
Boron	ppm	■ 45	---	---	---

## 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. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible. The oil viscosity is lower than normal. Confirm oil type. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** VOLVO2990  
**Unique No:** 10738479  
**Signed:** Sean Felton  
**Report Date:** 14 Nov 2023



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## GRAPHS

