



# CONSTRUCTION EQUIPMENT

## VOLVO EC350E 310403 - LEFT TRAVEL



**Sample No:** ML0001961  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:**



### SAMPLE INFORMATION

Sample Number	ML0001961	---	---	---
Sample Date	23 May 2024	---	---	---
Machine Hours	9621	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

**WILLIAM HAZEL**  
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 CHANTILLY, VA  
 US 20153  
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 jimmy\_elswick@wahazel.com  
 T: (703)378-8300  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	● 684	---	---	---
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### CONTAMINATION

Water	%	▲ 0.533	---	---	---
Silicon	ppm	▲ 5480	---	---	---
Sodium	ppm	■ 178	---	---	---
Potassium	ppm	■ 393	---	---	---



### WEAR METALS

Iron	ppm	▲ 11671	---	---	---
Copper	ppm	■ 26	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	● 1342	---	---	---
Chromium	ppm	▲ 101	---	---	---
Molybdenum	ppm	■ 15	---	---	---
Nickel	ppm	▲ 9	---	---	---
Titanium	ppm	151	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	▲ 78	---	---	---
Vanadium	ppm	4	---	---	---



### ADDITIVES

Calcium	ppm	■ 253	---	---	---
Magnesium	ppm	■ 183	---	---	---
Zinc	ppm	■ 32	---	---	---
Phosphorus	ppm	■ 715	---	---	---
Barium	ppm	■ 9	---	---	---
Boron	ppm	■ 106	---	---	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. 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. 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. There is a moderate concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** WILCHA  
**Unique No:** 11056566  
**Signed:** Sean Felton  
**Report Date:** 31 May 2024

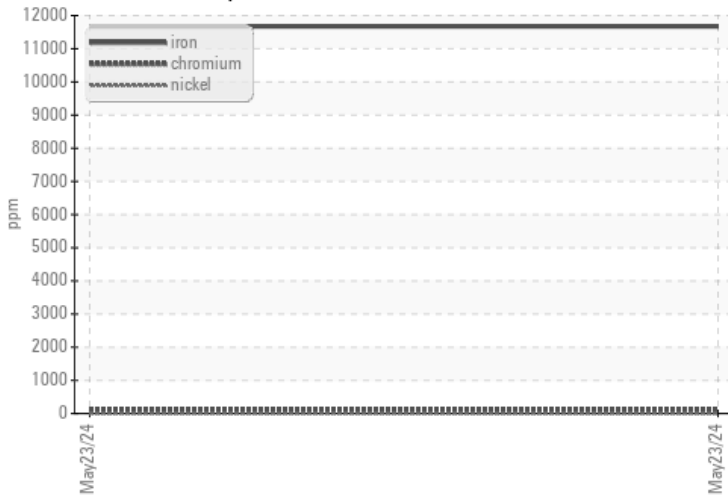


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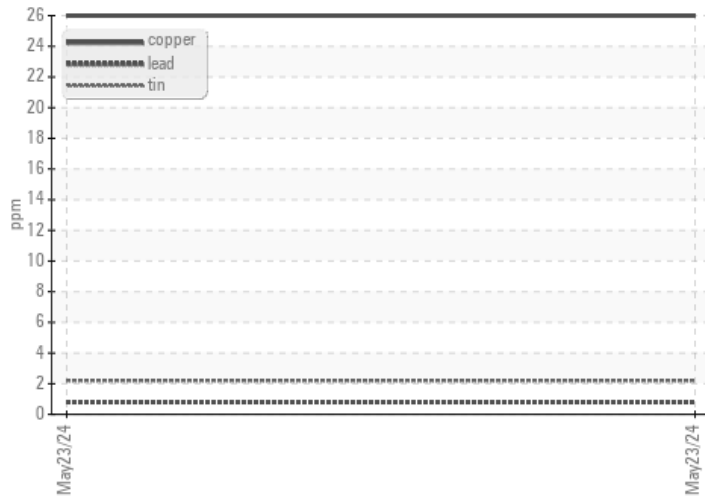


## GRAPHS

### ▲ Ferrous Alloys



### Non-ferrous Metals



### ● Viscosity @ 40°C

