



# CONSTRUCTION EQUIPMENT

HORST VOLVO EC460CL 110503 - LEFT FINAL DRIVE



**Sample No:** VCP348813  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** HORST



**HIGHWAY EQUIPMENT AND SUPPLY CO**  
 200 BURKHOLDER DR.  
 EPHRATA, PA  
 US 17522  
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## SAMPLE INFORMATION

Sample Number	VCP348813	---	---	---
Sample Date	27 Jan 2023	---	---	---
Machine Hours	9014	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



## OIL CONDITION

Visc @ 40°C	cSt	█ 184	---	---	---
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## CONTAMINATION

Silicon	ppm	▲ 215	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 20	---	---	---



## WEAR METALS

Iron	ppm	▲ 558	---	---	---
Copper	ppm	▲ 145	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 5	---	---	---
Aluminum	ppm	▲ 87	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	3	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 6	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	█ 76	---	---	---
Magnesium	ppm	█ 11	---	---	---
Zinc	ppm	█ 58	---	---	---
Phosphorus	ppm	█ 582	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 17	---	---	---

## Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Bearing and/or gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

**Depot:** INSEPH  
**Unique No:** 10321070  
**Signed:** Don Baldrige  
**Report Date:** 03 Feb 2023



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## GRAPHS

