



CONSTRUCTION EQUIPMENT

HORST VOLVO EC460CL 110503 - RIGHT FINAL DRIVE



Sample No: VCP348812
Oil Type: GEAR OIL SAE 80W90
Job No: HORST



HIGHWAY EQUIPMENT AND SUPPLY CO
 200 BURKHOLDER DR.
 EPHRATA, PA
 US 17522
 Contact: CHAD HERRON
 chad@hwyequip.com
 T: (717)859-3132
 F: (717)859-2698



SAMPLE INFORMATION

Sample Number	VCP348812	---	---	---
Sample Date	27 Jan 2023	---	---	---
Machine Hours	9014	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	█ 199	---	---	---
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CONTAMINATION

Silicon	ppm	▲ 135	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 13	---	---	---



WEAR METALS

Iron	ppm	█ 401	---	---	---
Copper	ppm	▲ 148	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	▲ 44	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 40	---	---	---
Magnesium	ppm	█ 8	---	---	---
Zinc	ppm	█ 37	---	---	---
Phosphorus	ppm	█ 544	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 11	---	---	---

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 bushing wear is indicated. All other component wear rates are normal. 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: 10321056
Signed: Don Baldrige
Report Date: 03 Feb 2023



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GRAPHS

