



CONSTRUCTION EQUIPMENT

11387 FREEDOM CONSTR VOLVO ECR145E 315603 - FRONT LEFT FINAL DRIVE



Sample No: VCP434112
Oil Type: GEAR OIL SAE 80W140
Job No: 11387 FREEDOM CONSTR



HOFFMAN EQUIPMENT - LIONVILLE
120 GORDON DRIVE
LIONVILLE, PA
US 19341
Contact: JIM FEHR
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T: (610)363-9200
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SAMPLE INFORMATION

Sample Number	VCP434112	---	---	---
Sample Date	03 Nov 2023	---	---	---
Machine Hours	3308	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	█ 276	---	---	---
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CONTAMINATION

Silicon	ppm	█ 23	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 203	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	▲ 19	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 21	---	---	---
Magnesium	ppm	█ 1	---	---	---
Zinc	ppm	█ 18	---	---	---
Phosphorus	ppm	█ 921	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 25	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The tin level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO8879
Unique No: 10737597
Signed: Sean Felton
Report Date: 14 Nov 2023



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GRAPHS

