



CONSTRUCTION EQUIPMENT

SW-24201-2 VOLVO ECR145E 316420 - SWING DRIVE



Sample No: VCP432511
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: SW-24201-2



ARNOLD MACHINERY COMPANY
 2975 WEST 2100 SOUTH
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SAMPLE INFORMATION

Sample Number	VCP432511	---	---	---
Sample Date	18 Sep 2023	---	---	---
Machine Hours	555	---	---	---
Oil Hours	555	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	█ 175	---	---	---
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CONTAMINATION

Water	%	▲ 0.118	---	---	---
Silicon	ppm	█ 27	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ <1	---	---	---



WEAR METALS

Iron	ppm	█ 50	---	---	---
Copper	ppm	▲ 54	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 6	---	---	---
Magnesium	ppm	█ 0	---	---	---
Zinc	ppm	█ 35	---	---	---
Phosphorus	ppm	█ 331	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 2	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a trace of moisture present in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO8770
Unique No: 10661391
Signed: Jonathan Hester
Report Date: 27 Sep 2023



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GRAPHS

