



CONSTRUCTION EQUIPMENT

SW-20672 4 VOLVO EC290B 12574 - SWING DRIVE



Sample No: VCP419498
Oil Type: GEAR OIL SAE 80W90
Job No: SW-20672 4



ARNOLD MACHINERY COMPANY
 2975 WEST 2100 SOUTH
 SALT LAKE CITY, UT
 US 84119
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SAMPLE INFORMATION

Sample Number	VCP419498	---	---	---
Sample Date	02 Aug 2023	---	---	---
Machine Hours	5592	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	█ 182	---	---	---
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CONTAMINATION

Water	%	▲ 0.512	---	---	---
Silicon	ppm	▲ 73	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 6	---	---	---



WEAR METALS

Iron	ppm	● 1228	---	---	---
Copper	ppm	█ 52	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 8	---	---	---
Chromium	ppm	▲ 19	---	---	---
Molybdenum	ppm	█ 2	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 17	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 26	---	---	---
Magnesium	ppm	█ 7	---	---	---
Zinc	ppm	█ 57	---	---	---
Phosphorus	ppm	█ 1228	---	---	---
Barium	ppm	█ 9	---	---	---
Boron	ppm	█ 11	---	---	---

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor. Gear wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a moderate concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VOLVO8770
Unique No: 10606829
Signed: Jonathan Hester
Report Date: 18 Aug 2023



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GRAPHS

