



CONSTRUCTION EQUIPMENT

552774 VOLVO EC480 314300 - SWING DRIVE



Sample No: VCP405125
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 552774



SAMPLE INFORMATION

Sample Number	VCP405125	VCP393768	VCP291564	---
Sample Date	08 May 2023	08 May 2023	15 Dec 2020	---
Machine Hours	5393	5393	1065	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	SEVERE	NORMAL	NORMAL	---

FIVE STONES MINE
MORNING STAR FARM RD
CANAL POINT, FL
US 33430
Contact: Service Manager

OIL CONDITION

Visc @ 40°C	cSt	▲ 316	■ 168	■ 172	---
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T:
F:

CONTAMINATION

Water	%	▲ 0.318	NEG	NEG	---
Silicon	ppm	◆ 394	■ 22	■ 5	---
Sodium	ppm	■ 3	■ 0	■ 0	---
Potassium	ppm	■ 6	■ <1	■ <1	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil. The oil viscosity is higher than normal. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

WEAR METALS

Iron	ppm	▲ 2081	■ 423	■ 65	---
Copper	ppm	■ 3	■ 5	■ 6	---
Lead	ppm	■ 0	■ 0	■ 0	---
Tin	ppm	■ <1	■ 0	■ 0	---
Aluminum	ppm	▲ 30	■ 4	■ 0	---
Chromium	ppm	◆ 28	■ 4	■ <1	---
Molybdenum	ppm	■ 4	■ <1	■ 0	---
Nickel	ppm	■ 2	■ <1	■ 0	---
Titanium	ppm	■ 2	■ 0	■ 0	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ 16	■ 4	■ 1	---
Vanadium	ppm	■ <1	■ 0	■ 0	---

ADDITIVES

Calcium	ppm	■ 476	■ 17	■ 4	---
Magnesium	ppm	■ 8	■ 0	■ <1	---
Zinc	ppm	■ 6	■ 5	■ 16	---
Phosphorus	ppm	■ 852	■ 252	■ 249	---
Barium	ppm	■ 0	■ 0	■ 2	---
Boron	ppm	■ 120	■ 4	■ 2	---

Depot: FIVCAN
Unique No: 10468789
Signed: Jonathan Hester
Report Date: 16 May 2023



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GRAPHS

