



CONSTRUCTION EQUIPMENT

SWA309970 S FL EXC VOLVO A40G 352506 - REAR AXLE



Sample No: VCP420580
Oil Type: GEAR OIL SAE 80W90
Job No: SWA309970 S FL EXC



SAMPLE INFORMATION

Sample Number	VCP420580	VCP343790	---	---
Sample Date	22 Jul 2023	16 Oct 2021	---	---
Machine Hours	5710	2346	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

SOUTH FLORIDA EXCAVATION

1455 RAIL HEAD BLVD STE 3
 NAPLES, FL
 US 34110-8407
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OIL CONDITION

Visc @ 40°C	cSt	▲ 286	▲ 52.5	---	---
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CONTAMINATION

Water	%	▲ 0.422	---	---	---
Silicon	ppm	▲ 147	▲ 50	---	---
Sodium	ppm	■ 2	■ 3	---	---
Potassium	ppm	■ 7	■ 5	---	---



WEAR METALS

Iron	ppm	■ 361	■ 787	---	---
Copper	ppm	■ 4	■ 5	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ 0	■ <1	---	---
Aluminum	ppm	▲ 69	■ 21	---	---
Chromium	ppm	■ 4	■ 12	---	---
Molybdenum	ppm	■ 6	■ 5	---	---
Nickel	ppm	■ 2	■ 3	---	---
Titanium	ppm	2	1	---	---
Silver	ppm	0	1	---	---
Manganese	ppm	■ 6	■ 25	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	■ 782	■ 200	---	---
Magnesium	ppm	■ 53	■ 11	---	---
Zinc	ppm	■ 65	■ 28	---	---
Phosphorus	ppm	■ 1008	■ 2332	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 126	■ 236	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is hazy. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil. The oil viscosity is higher than normal.

Depot: SOUNAPFL
Unique No: 10578242
Signed: Jonathan Hester
Report Date: 02 Aug 2023



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GRAPHS

