



# CONSTRUCTION EQUIPMENT

SPM621833 ENV ARTIST TAKEUCHI TL12V2 412004700 - REAR LEFT FINAL DRIVE



**Sample No:** VCP431459  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM621833 ENV ARTIST



## SAMPLE INFORMATION

Sample Number	VCP431459	VCP410429	---	---
Sample Date	03 Nov 2023	01 Jun 2023	---	---
Machine Hours	4059	1226	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	█ 146	█ 119	---	---
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## CONTAMINATION

Silicon	ppm	▲ 135	█ 22	---	---
Sodium	ppm	█ 5	█ 3	---	---
Potassium	ppm	█ 7	█ 3	---	---

## Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	▲ 935	▲ 662	---	---
Copper	ppm	█ 2	█ 1	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	▲ 18	█ 1	---	---
Chromium	ppm	█ 9	█ 7	---	---
Molybdenum	ppm	█ <1	█ <1	---	---
Nickel	ppm	█ 6	█ 1	---	---
Titanium	ppm	1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 8	█ 12	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	█ 110	█ 56	---	---
Magnesium	ppm	█ 6	█ 1	---	---
Zinc	ppm	█ 40	█ 47	---	---
Phosphorus	ppm	█ 666	█ 839	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 45	█ 20	---	---

**Depot:** VOLVO5023  
**Unique No:** 10736974  
**Signed:** Sean Felton  
**Report Date:** 13 Nov 2023



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## VOLVO GRAPHS

