



# CONSTRUCTION EQUIPMENT

## SW1026683 MGC VOLVO ECR40D 14219 - REAR LEFT FINAL DRIVE



**Sample No:** VCP405444  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SW1026683 MGC



### SAMPLE INFORMATION

Sample Number	VCP405444	---	---	---
Sample Date	22 Nov 2023	---	---	---
Machine Hours	950	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

**ARNOLD MACHINERY COMPANY**  
 4323 EAST WINSLOW AVENUE  
 PHOENIX, AZ  
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### OIL CONDITION

Visc @ 40°C	cSt	■ 203	---	---	---
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### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	◆ 2563	---	---	---
Sodium	ppm	■ 44	---	---	---
Potassium	ppm	■ 124	---	---	---

### 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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Component wear metal level(s) high for break in. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



### WEAR METALS

Iron	ppm	◆ 6599	---	---	---
Copper	ppm	■ 19	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	▲ 360	---	---	---
Chromium	ppm	◆ 76	---	---	---
Molybdenum	ppm	■ 7	---	---	---
Nickel	ppm	◆ 25	---	---	---
Titanium	ppm	■ 31	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 60	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	■ 756	---	---	---
Magnesium	ppm	■ 42	---	---	---
Zinc	ppm	■ 262	---	---	---
Phosphorus	ppm	■ 934	---	---	---
Barium	ppm	■ 13	---	---	---
Boron	ppm	■ 16	---	---	---

**Depot:** VOLVO6174  
**Unique No:** 10768658  
**Signed:** Don Baldrige  
**Report Date:** 06 Dec 2023



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## GRAPHS

