



# CONSTRUCTION EQUIPMENT

SW1026681 MGC VOLVO ECR145E 314588 - SWING DRIVE



**Sample No:** VCP441014  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SW1026681 MGC



**ARNOLD MACHINERY COMPANY**  
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## SAMPLE INFORMATION

Sample Number	VCP441014	VCP353733	---	---
Sample Date	29 Nov 2023	29 Jul 2022	---	---
Machine Hours	1011	502	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	NORMAL	NORMAL	---	---



## OIL CONDITION

Visc @ 40°C	cSt	█ 179	█ 179	---	---
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## CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	█ 15	█ 15	---	---
Sodium	ppm	█ 3	█ <1	---	---
Potassium	ppm	█ <1	█ <1	---	---



## WEAR METALS

Iron	ppm	█ 55	█ 50	---	---
Copper	ppm	█ 6	█ 7	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	<1	---	---
Aluminum	ppm	█ 0	1	---	---
Chromium	ppm	█ <1	<1	---	---
Molybdenum	ppm	█ 0	█ 0	---	---
Nickel	ppm	█ 0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	█ 1	█ 1	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	█ 16	█ 42	---	---
Magnesium	ppm	█ 0	█ 0	---	---
Zinc	ppm	█ 21	█ 24	---	---
Phosphorus	ppm	█ 427	█ 468	---	---
Barium	ppm	█ <1	█ 2	---	---
Boron	ppm	0	█ 4	---	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO6174  
**Unique No:** 10776627  
**Signed:** Jonathan Hester  
**Report Date:** 08 Dec 2023



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## GRAPHS

