



# CONSTRUCTION EQUIPMENT

646452 MOSIAC CO VOLVO A45G 352974 - DROP BOX



**Sample No:** VCP428682  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 646452 MOSIAC CO



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## SAMPLE INFORMATION

Sample Number	VCP428682	---	---	---
Sample Date	14 Dec 2023	---	---	---
Machine Hours	3408	---	---	---
Oil Hours	3408	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



## OIL CONDITION

Visc @ 40°C	cSt	▲ 45.8	---	---	---
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## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	▲ 54	---	---	---
Sodium	ppm	■ 8	---	---	---
Potassium	ppm	■ 3	---	---	---



## WEAR METALS

Iron	ppm	▲ 1068	---	---	---
Copper	ppm	■ 41	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 8	---	---	---
Molybdenum	ppm	■ 8	---	---	---
Nickel	ppm	■ 5	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 19	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	■ 47	---	---	---
Magnesium	ppm	■ 4	---	---	---
Zinc	ppm	■ 94	---	---	---
Phosphorus	ppm	■ 2220	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 51	---	---	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other metal levels are typical for a new component breaking in. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. Confirm oil type.

**Depot:** VOLVO0093  
**Unique No:** 10862338  
**Signed:** Don Baldrige  
**Report Date:** 07 Feb 2024



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## GRAPHS

