



# CONSTRUCTION EQUIPMENT

SW1027980 DIAMOND VOLVO A40D 12032 - FRONT AXLE



**Sample No:** VCP412920  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SW1027980 DIAMOND



## SAMPLE INFORMATION

Sample Number	VCP412920	---	---	---
Sample Date	03 Jan 2024	---	---	---
Machine Hours	6905	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

**ARNOLD MACHINERY COMPANY**  
4323 EAST WINSLOW AVENUE  
PHOENIX, AZ  
US 85040  
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## OIL CONDITION

Visc @ 40°C	cSt	█ 135	---	---	---
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## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 15	---	---	---

## Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	█ 98	---	---	---
Copper	ppm	● 305	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	● 11	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 50	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 7	---	---	---
Phosphorus	ppm	█ 987	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 178	---	---	---

**Depot:** VOLVO6174  
**Unique No:** 10842665  
**Signed:** Don Baldrige  
**Report Date:** 23 Jan 2024



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## GRAPHS

