



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352247 - DROP BOX



**Sample No:** VCP333617  
**Oil Type:** VOLVO SUPER GEAR OIL 75W-80-GO102  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP333617	---	---	---
Sample Date	21 Nov 2022	---	---	---
Machine Hours	5261	---	---	---
Oil Hours	200	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

**STRONGCO EQUIPMENT-EDMONTON**  
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### OIL CONDITION

Visc @ 40°C	cSt	76.9	---	---	---
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### CONTAMINATION

Silicon	ppm	122	---	---	---
Sodium	ppm	1	---	---	---
Potassium	ppm	<1	---	---	---



### WEAR METALS

PQ		4504	---	---	---
Iron	ppm	14015	---	---	---
Copper	ppm	31	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	10	---	---	---
Chromium	ppm	123	---	---	---
Molybdenum	ppm	7	---	---	---
Nickel	ppm	14	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	136	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	43	---	---	---
Magnesium	ppm	11	---	---	---
Zinc	ppm	13	---	---	---
Phosphorus	ppm	1050	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	105	---	---	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Chromium and iron ppm levels are severe. PQ levels are severe. Nickel and copper ppm levels are abnormal. Gear wear is indicated. Bearing and/or bushing wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring. High concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within SAE 80 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** VOLVO3908  
**Unique No:** 5498854  
**Signed:** Kevin Marson  
**Report Date:** 01 Dec 2022



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## GRAPHS

