



# CONSTRUCTION EQUIPMENT

GFL 8-404316 VOLVO A40G 353367 - DIESEL ENGINE



Sample No: VCP450488

Oil Type: {unknown}

Job No: 8-404316



## SAMPLE INFORMATION

Sample Number	VCP450488	---	---	---
Sample Date	14 May 2024	---	---	---
Machine Hours	1178	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

### STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD  
MISSISSAUGA, ON  
CA L4W 4L4

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## OIL CONDITION

Visc @ 100°C	cSt	10.9	---	---	---
Oxidation (PA)	%	65	---	---	---



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	88	---	---	---
Sulfation (PA)	%	67	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	0.0	---	---	---
Silicon	ppm	26	---	---	---
Sodium	ppm	22	---	---	---
Potassium	ppm	4	---	---	---



## WEAR METALS

Iron	ppm	28	---	---	---
Copper	ppm	211	---	---	---
Lead	ppm	6	---	---	---
Tin	ppm	3	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	74	---	---	---
Nickel	ppm	4	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	1977	---	---	---
Magnesium	ppm	102	---	---	---
Zinc	ppm	973	---	---	---
Phosphorus	ppm	833	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	12	---	---	---

### Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. Nickel ppm levels are abnormal. Exhaust valve wear is indicated. There is a moderate concentration of dirt present in the oil. Tests indicate that there is no fuel present in the oil. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: SHEMIS  
Unique No: 5785489  
Signed: Kevin Marson  
Report Date: 21 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

