



# CONSTRUCTION EQUIPMENT

19497 VOLVO A45G 353441 - DIESEL ENGINE



**Sample No:** VCP390920

**Oil Type:** NOT GIVEN

**Job No:** 19497



## SAMPLE INFORMATION

Sample Number	VCP390920	---	---	---
Sample Date	11 Aug 2023	---	---	---
Machine Hours	1130	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



## OIL CONDITION

Visc @ 100°C	cSt	█ 11.6	---	---	---
Base Number (BN)	mg KOH/g	█ 5.2	---	---	---
Oxidation (PA)	%	94	---	---	---



## CONTAMINATION

Soot %	%	█ 0.8	---	---	---
Nitration (PA)	%	106	---	---	---
Sulfation (PA)	%	72	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	█ 3.9	---	---	---
Silicon	ppm	● 137	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 10	---	---	---



## WEAR METALS

Iron	ppm	▲ 137	---	---	---
Copper	ppm	█ 165	---	---	---
Lead	ppm	█ 5	---	---	---
Tin	ppm	█ 8	---	---	---
Aluminum	ppm	▲ 34	---	---	---
Chromium	ppm	█ 6	---	---	---
Molybdenum	ppm	█ 78	---	---	---
Nickel	ppm	█ 6	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	5	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	█ 2067	---	---	---
Magnesium	ppm	█ 187	---	---	---
Zinc	ppm	█ 1174	---	---	---
Phosphorus	ppm	█ 946	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 16	---	---	---



117 - ASCENDUM MACHINERY INC - GREENVILLE  
 2002 N GREENE ST  
 GREENVILLE, NC  
 US 27834  
 Contact: ALLEN WILLIAMS  
 allen.williams@ascendummachinery.com  
 T:  
 F: (704)494-8197

## Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Cylinder, crank, or cam shaft wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil.

**Depot:** VOLV08769  
**Unique No:** 10616567  
**Signed:** Don Baldrige  
**Report Date:** 24 Aug 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

