



CONSTRUCTION EQUIPMENT

63050 3D EX VOLVO 220DL 210112 - BOGIE/CENTER RIGHT FINAL DRIVE



Sample No: VCP418044
Oil Type: NOT GIVEN
Job No: 63050 3D EX



SAMPLE INFORMATION

Sample Number	VCP418044	---	---	---
Sample Date	14 Jun 2023	---	---	---
Machine Hours	5900	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

COWIN EQUIPMENT COMPANY INC - GUNTERSVILLE
15101 ALABAMA HWY 20
MADISON, AL
US 35756
Contact: RANDY HARRIS
RHARRIS@COWIN.COM
T: (256)298-2322
F: (256)355-5250



OIL CONDITION

Visc @ 40°C	cSt	362	---	---	---
-------------	-----	-----	-----	-----	-----



CONTAMINATION

Water	%	▲ 0.960	---	---	---
Silicon	ppm	◆ 4562	---	---	---
Sodium	ppm	■ 24	---	---	---
Potassium	ppm	■ 171	---	---	---



WEAR METALS

Iron	ppm	◆ 8554	---	---	---
Copper	ppm	■ 15	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	▲ 708	---	---	---
Chromium	ppm	◆ 78	---	---	---
Molybdenum	ppm	11	---	---	---
Nickel	ppm	9	---	---	---
Titanium	ppm	■ 72	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	48	---	---	---
Vanadium	ppm	3	---	---	---



ADDITIVES

Calcium	ppm	135	---	---	---
Magnesium	ppm	84	---	---	---
Zinc	ppm	55	---	---	---
Phosphorus	ppm	970	---	---	---
Barium	ppm	2	---	---	---
Boron	ppm	159	---	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: COWMAD
Unique No: 10532838
Signed: Jonathan Hester
Report Date: 30 Jun 2023



CONSTRUCTION EQUIPMENT



GRAPHS

