



CONSTRUCTION EQUIPMENT

24200 CATERPILLAR 321D MPG00947 - REAR LEFT FINAL DRIVE



Sample No: VCP424653
Oil Type: GEAR OIL SAE 80W90
Job No: 24200



SAMPLE INFORMATION

Sample Number	VCP424653	---	---	---
Sample Date	05 Oct 2023	---	---	---
Machine Hours	7896	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

218 - ASCENDUM MACHINERY INC - N. CHARLESTON
 7235 CROSS COUNTRY RD.
 NORTH CHARLESTON, SC
 US 29418
 Contact: MATT MITCHAM
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 T:
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OIL CONDITION

Visc @ 40°C	cSt	█ 140	---	---	---
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CONTAMINATION

Water	%	◆ 1.43	---	---	---
Silicon	ppm	█ 386	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 7	---	---	---

Diagnosis

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. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	▲ 1044	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 59	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 7	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 7	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 85	---	---	---
Magnesium	ppm	█ 10	---	---	---
Zinc	ppm	█ 28	---	---	---
Phosphorus	ppm	█ 982	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 160	---	---	---

Depot: VOLVO3387
Unique No: 10685280
Signed: Jonathan Hester
Report Date: 11 Oct 2023



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GRAPHS

