



# CONSTRUCTION EQUIPMENT

SWO070550 BRELAND VOLVO A25G 742 190 - DIESEL ENGINE



**Sample No:** VCP436698  
**Oil Type:** {unknown}  
**Job No:** SWO070550 BRELAND



**COWIN EQUIPMENT COMPANY INC - GUNTERSVILLE**  
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## SAMPLE INFORMATION

Sample Number	VCP436698	VCP355846	---	---
Sample Date	20 Mar 2024	02 Mar 2022	---	---
Machine Hours	3742	2045	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---



## OIL CONDITION

Visc @ 100°C	cSt	▲ 11.1	▲ 9.9	---	---
Base Number (BN)	mg KOH/g	■ 9.5	■ 4.9	---	---
Oxidation (PA)	%	75	69	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.1	■ 0.4	---	---
Nitration (PA)	%	51	78	---	---
Sulfation (PA)	%	58	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 5.0	▲ 13.7	---	---
Silicon	ppm	■ 4	■ 6	---	---
Sodium	ppm	■ 2	■ 2	---	---
Potassium	ppm	■ 0	■ 0	---	---



## WEAR METALS

Iron	ppm	■ 4	■ 16	---	---
Copper	ppm	■ 1	▲ 140	---	---
Lead	ppm	■ <1	■ 2	---	---
Tin	ppm	■ 0	■ 1	---	---
Aluminum	ppm	■ 1	■ 2	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 40	■ 15	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---



## ADDITIVES

Calcium	ppm	■ 1710	■ 1452	---	---
Magnesium	ppm	■ 523	■ 516	---	---
Zinc	ppm	■ 1093	725	---	---
Phosphorus	ppm	■ 947	596	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 56	■ 25	---	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

**Depot:** COWMAD  
**Unique No:** 10949233  
**Signed:** Jonathan Hester  
**Report Date:** 02 Apr 2024



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## GRAPHS

