



# CONSTRUCTION EQUIPMENT

SPM674735-10 VOLVO EC950FL 410112 - DIESEL ENGINE



**Sample No:** VCP421018  
**Oil Type:** {unknown}  
**Job No:** SPM674735-10



## SAMPLE INFORMATION

Sample Number	VCP421018	---	---	---
Sample Date	17 Feb 2024	---	---	---
Machine Hours	1239	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

**ALTA EQUIPMENT COMPANY**  
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## OIL CONDITION

Visc @ 100°C	cSt	█ 12.0	---	---	---
Base Number (BN)	mg KOH/g	█ 7.9	---	---	---
Oxidation (PA)	%	79	---	---	---



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	68	---	---	---
Sulfation (PA)	%	63	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 2.9	---	---	---
Silicon	ppm	▲ 46	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 17	---	---	---



## WEAR METALS

Iron	ppm	█ 81	---	---	---
Copper	ppm	█ 104	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ 7	---	---	---
Aluminum	ppm	▲ 12	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 69	---	---	---
Nickel	ppm	▲ 22	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 2004	---	---	---
Magnesium	ppm	█ 239	---	---	---
Zinc	ppm	█ 1189	---	---	---
Phosphorus	ppm	█ 946	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 4	---	---	---

## Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Valve wear is indicated. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Light fuel dilution occurring. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0090  
**Unique No:** 10887550  
**Signed:** Don Baldrige  
**Report Date:** 22 Feb 2024



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## GRAPHS

