

## **CONSTRUCTION EQUIPMENT**

SWA448808 THREE LAKE VOLVO EC550 310286 - DIESEL ENGIN

Sample No: VCP438139

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

**Job No:** SWA448808 THREE LAKE

VOLVO	NEODMATION				
	NFORMATION				_
Sample Number		VCP438139			
Sample Date		05 Jan 2024			
Machine Hours		675			
Oil Hours		0			
Oil Changed		Changed			
Sample Status		ABNORMAL			
OIL CONDITION					
Visc @ 100°C	cSt	<b>10.7</b>			
Base Number (BN)	mg KOH/g	<b>4.9</b>			
Oxidation (PA)	%	67			
CONTAMINATION					
Water	%	NEG			
Soot %	%	■ 0.2			
Nitration (PA)	%	83			
Sulfation (PA)	%	60			
Glycol	%	NEG			
Fuel	%	■ 0.4			
Silicon		<b>■</b> 26			
Sodium	ppm	_			
	ppm	<b>3</b>			
Potassium	ppm	■3			
VOLVO					
WEAR METALS					
Iron	ppm	<b>12</b>			
Copper	ppm	<b>149</b>			
Lead	ppm	<b>2</b>			
Tin	ppm	<b>2</b>			
Aluminum	ppm	<b>■</b> <1			
Chromium	ppm	<b>■</b> 0			
Molybdenum	ppm	<b>76</b>			
Nickel	ppm	<b>■</b> 0			
Titanium	ppm	0			
Silver	ppm	■0			
Manganese	ppm	<b>1</b>			
Vanadium	ppm	0			
ADDITION					
		= 2050			
Calcium	ppm	2050			
Magnesium	ppm	78			
Zinc	ppm	<b>1200</b>			



## **ALTA EQUIPMENT COMPANY**

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## Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:VOLVO0095Unique No:10823698Signed:Don BaldridgeReport Date:14 Jan 2024

ppm

ppm

ppm

**893** 

**0** 

Phosphorus

Barium

Boron



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