CONSTRUCTION EQUIPMENT SPM580082 VOLVO EC480EL 315144 - DIESEL ENGINE

Sample No:	VCP420667
Oil Type:	DIESEL ENGINE OIL SAE 15W40
Job No:	SPM580082

VCP420667

## SAMPLE INFORMATION

Sample Number

VOLVO

Sample Number		VCP420667	 	
Sample Date		18 Jul 2023	 	
Machine Hours		436	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
OIL CONDI	TION			
Visc @ 100°C	cSt	<b>A</b> 10.9	 	
Base Number (BN)	mg KOH/g	5.0	 	
Oxidation (PA)	%	69	 	
VOLVO				
CONTAMIN	IATION			
Soot %	%	∎0.1	 	
Nitration (PA)	%	88	 	
Sulfation (PA)	%	59	 	
Glycol	%	NEG	 	
Fuel	%	0.7	 	
Silicon	ppm	22	 	
Sodium	ppm	0	 	

Potassium

ppm

**4** 

WEAR METALS 14 Iron ppm Copper 232 ppm Lead **||** <1 ppm Tin 2 ppm Aluminum ppm 2 Chromium ppm 0 Molybdenum 85 ppm Nickel ppm **||** <1 Titanium 0 ppm Silver **||** < 1 ppm Manganese ppm 2 Vanadium 0 ppm

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ADDITIVES							
Calcium	ppm	2174					
Magnesium	ppm	<b>128</b>					
Zinc	ppm	1183					
Phosphorus	ppm	977					
Barium	ppm	2					
Boron	ppm	24					



## SIMS METAL MANAGEMENT

2500 S. PAULINA CHICAGO, IL US 60608 Contact: RYAN WISE ryan.wise@simsmm.com T: F.

## 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 component wear rates are normal. 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:SIMCHIILUnique No:10586140Signed:Don BaldridgeReport Date:05 Aug 2023

Report Id: SIMCHIIL [WUSCAR] 05914226 (Generated: 08/08/2023 03:38:10) Rev: 1

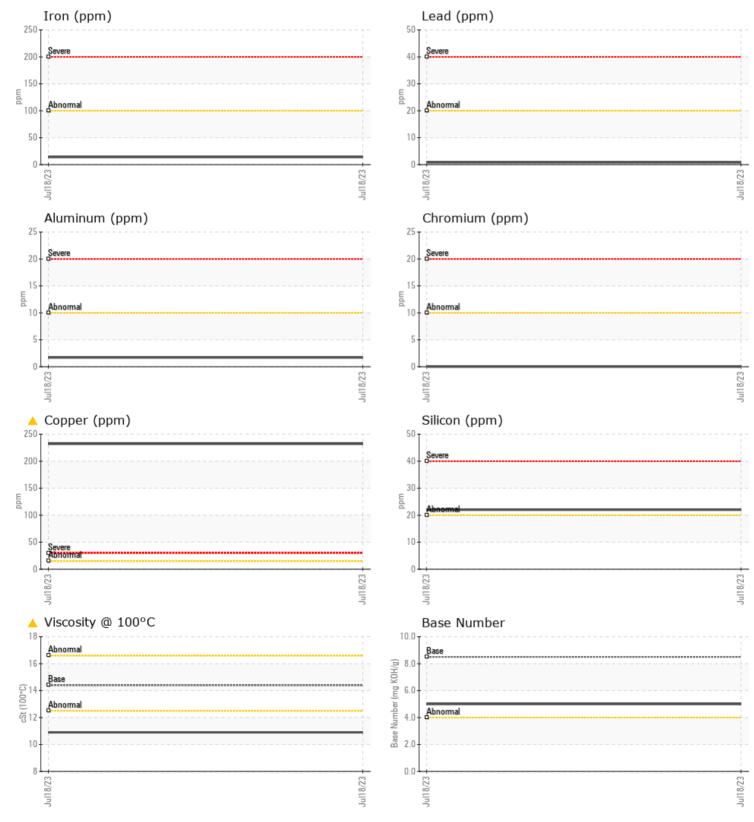
Contact/Location: RYAN WISE - SIMCHIIL

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Contact/Location: RYAN WISE - SIMCHIIL