CONSTRUCTION EQUIPMENT SPM688848 VOLVO EC480EL 315144 - DIESEL ENGINE

Sample No:VCP427259Oil Type:DIESEL ENGINE OIL SAE 15W40Job No:SPM688848

# SAMPLE INFORMATION

VOLVO

Sample Number	-	VCP427259	VCP420667	 
Sample Date		02 Apr 2024	18 Jul 2023	 
Machine Hours		1019	436	 
Oil Hours		0	0	 
Oil Changed		Changed	Changed	 
Sample Status		ABNORMAL	ABNORMAL	 
OIL CONDI	TION			
Visc @ 100°C	cSt	<b>12.3</b>	0.9	 
Base Number (BN)	mg KOH/g	5.6	5.0	 
Oxidation (PA)	%	74	69	 
CONTAMIN	IATION			
Water	%	NEG	NEG	 
Soot %	%	0.2	0.1	 
Nitration (PA)	%	91	88	 
Sulfation (PA)	%	62	59	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	0.7	 
Silicon	ppm	<b>10</b>	22	 
Sodium	ppm	2	0	 
Potassium	ppm	0	4	 

## WEAR METALS

Iron	ppm	12	14	 
Copper	ppm	<u> </u>	<u> </u>	 
Lead	ppm	<b></b> <1	<1	 
Tin	ppm	<b>1</b>	2	 
Aluminum	ppm	<b></b> <1	2	 
Chromium	ppm		0	 
Molybdenum	ppm	56	85	 
Nickel	ppm	0	<b></b> <1	 
Titanium	ppm	2	0	 
Silver	ppm	0	□ <1	 
Manganese	ppm	<b></b> <1	2	 
Vanadium	ppm	<1	0	 

ADDITIVES							
Calcium	ppm	1231	2174				
Magnesium	ppm	860	128				
Zinc	ppm	<b>1097</b>	1183				
Phosphorus	ppm	829	977				
Barium	ppm	0	2				
Boron	ppm	<b></b> <1	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 has decreased, but is still 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. 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:
 SIMCHIIL

 Unique No:
 10989302

 Signed:
 Sean Felton

 Report Date:
 23 Apr 2024

Contact/Location: RYAN WISE - SIMCHIIL

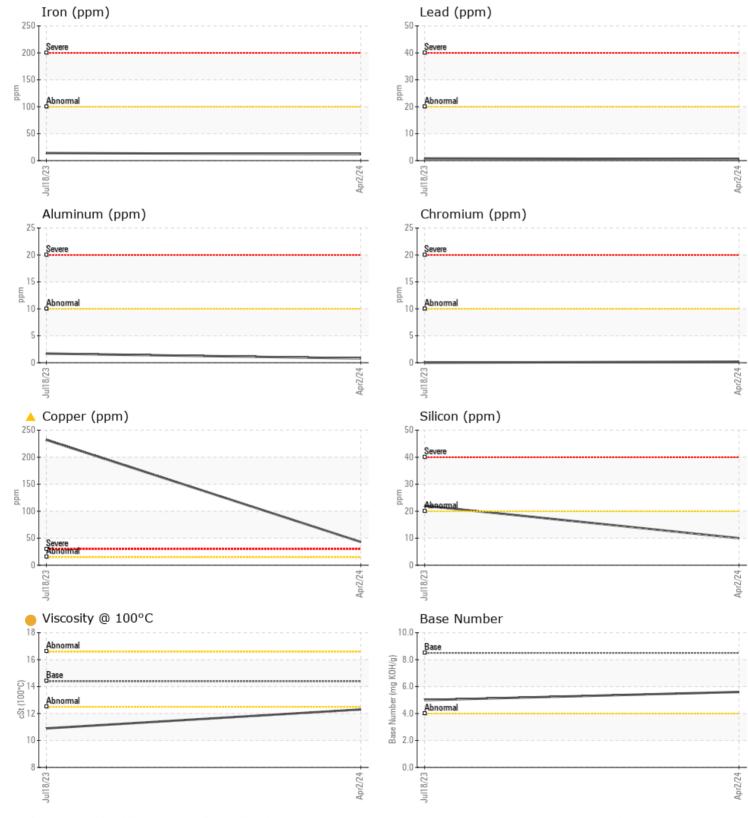


# **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



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Contact/Location: RYAN WISE - SIMCHIIL