

CONSTRUCTION EQUIPMENT

13298 GEORGE NRCQ VOLVO EC480E 315171 - DIESEL ENGINE

Sample No: VCP414598 **Oil Type:** SHELL 15W40

Job No: 13298 GEORGE NRCQ

SAMPLE II	NFORMATION			
Sample Number	-	VCP414598	 	
Sample Date		21 Aug 2023	 	
Machine Hours		500	 	
Oil Hours		500	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
OIT CONDI.	TION			
Visc @ 100°C	cSt	<u> </u>	 	
Base Number (BN)		■ 5.2	 	
Oxidation (PA)	%	48	 	
Oxidation (171)	70			
VOLVO	INTION			
CONTAMIN	NATION			
Soot %	%	0.1	 	
Nitration (PA)	%	59	 	
Sulfation (PA)	%	52	 	
Glycol	%	■ 0.0	 	
Fuel	%	■ 0.9	 	
Silicon	ppm	24	 	
Sodium	ppm	■0	 	
Potassium	ppm	4	 	
WEAR ME	TALS			
Iron	ppm	1 5	 	
Copper	ppm	A 283	 	
Lead	ppm	■<1	 	
Tin	ppm	2	 	
Aluminum	ppm	0	 	
Chromium	ppm	■ 0	 	
Molybdenum	ppm	23	 	
Nickel	ppm	■ 0	 	
Titanium	ppm	0	 	
Silver	ppm	■ 0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	
VOLVO			 	
ADDITIVE	2			
Calcium	ppm	2252	 	
Magnesium	ppm	□ 73	 	



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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. No other contaminants were detected 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:VOLVO8882Unique No:10617940Signed:Sean FeltonReport Date:25 Aug 2023

ppm

ppm

ppm

ppm

1098

925

2

Zinc

Barium

Boron

Phosphorus



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