# VOLVO

## CONSTRUCTION EQUIPMENT 1102 VOLVO EC350E 314684 - DIESEL ENGINE



## Sample No: VCP420801

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 Job No: 1102



#### SAMPLE INFORMATION VCP420801 Sample Number Sample Date 13 Oct 2023 Machine Hours 708 Oil Hours 0 Oil Changed Changed ABNORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt **11.1** Base Number (BN) mg KOH/g 5.6 Oxidation (PA) % 61 CONTAMINATION

Soot %	%	<b>0.1</b>	 	
Nitration (PA)	%	77	 	
Sulfation (PA)	%	55	 	
Glycol	%	NEG	 	
Fuel	%	0.8	 	
Silicon	ppm	21	 	
Sodium	ppm	2	 	
Potassium	ppm	3	 	

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Iron	ppm	7	 	
Copper	ppm	<u> </u>	 	
Lead	ppm	<b>1</b>	 	
Tin	ppm	2	 	
Aluminum	ppm	2	 	
Chromium	ppm	0	 	
Molybdenum	ppm	66	 	
Nickel	ppm	<b>□</b> <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	

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ADDITI	VES			
Calcium	ppm	<b>1926</b>	 	
Magnesium	ppm	200	 	
Zinc	ppm	🔲 1098	 	
Phosphorus	ppm	900	 	
Barium	ppm	0	 	
Boron	ppm	35	 	



#### VCES- VOLVO CONSTRUCTION EQUIPMENT

8594 FRUITRIDGE ROAD SACRAMENTO, CA US 95826 Contact: RAY KRANZUSCH ray.kranzusch@vcesvolvo.com T: F:

### Diagnosis

The oil 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:
 VOLVO4485

 Unique No:
 10714699

 Signed:
 Don Baldridge

 Report Date:
 31 Oct 2023

Report Id: VOLVO4485 [WUSCAR] 05992037 (Generated: 10/31/2023 11:10:24) Rev: 1

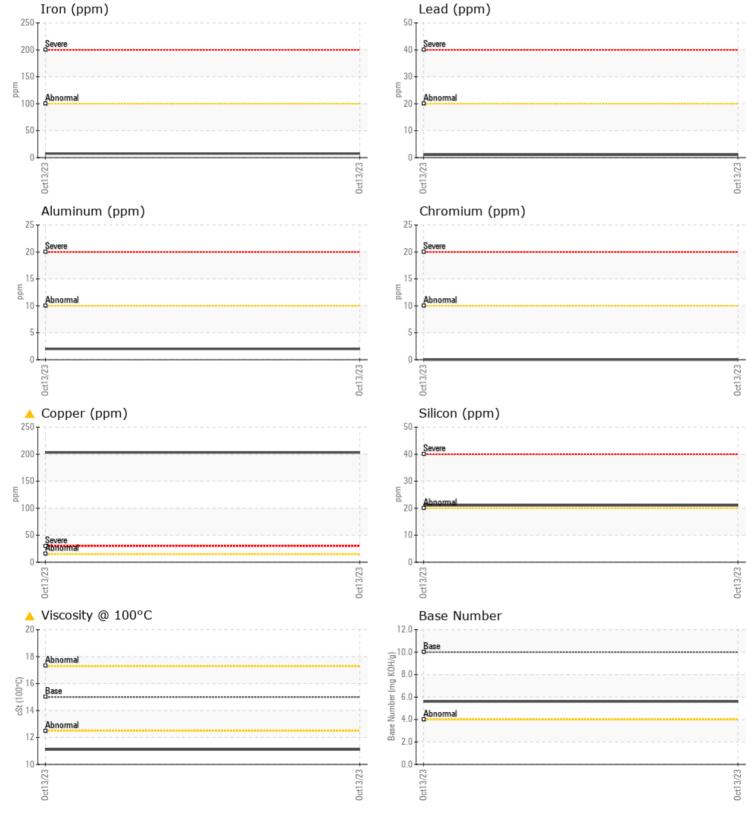
Contact/Location: RAY KRANZUSCH - VOLVO4485

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



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Contact/Location: RAY KRANZUSCH - VOLVO4485