## VOLVO

## CONSTRUCTION EQUIPMENT SW1032515 RFP VOLVO L200H 3003 - DIESEL ENGINE



 Sample No:
 VCP439167

 Oil Type:
 DIESEL ENGINE OIL SAE 15W40

 Job No:
 SW1032515 RFP

SAMPLE I	NFORMATION			
Sample Number	-	VCP439167	 	
Sample Date		05 Apr 2024	 	
Machine Hours		528	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
OIL CONDI	TION			
Visc @ 100°C	cSt	11.4	 	
Base Number (BN)	mg KOH/g	5.8	 	
Oxidation (PA)	%	58	 	
CONTAMI	NATION			
Water	%	NEG	 	
Soot %	%	0.4	 	
Nitration (PA)	%	78	 	
Sulfation (PA)	%	52	 	
Glycol	%	NEG	 	
Fuel	%	0.5	 	
Silicon	ppm	24	 	
Sodium	ppm	6	 	
Potassium	ppm	31	 	

OLVO

WEAR METALS						
Iron	ppm	18				
Copper	ppm	<u> </u>				
Lead	ppm	6				
Tin	ppm	2				
Aluminum	ppm	2				
Chromium	ppm					
Molybdenum	ppm	83				
Nickel	ppm	<b>1</b>				
Titanium	ppm	0				
Silver	ppm	0				
Manganese	ppm	2				
Vanadium	ppm	<1				

ADDITIVES							
Calcium	ppm	2250					
Magnesium	ppm	26					
Zinc	ppm	1141					
Phosphorus	ppm	1008					
Barium	ppm	0					
Boron	ppm	57					



ARNOLD MACHINERY COMPANY

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## Diagnosis

Oil and filter change at the time of sampling has been noted. 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:
 VOLVO6174

 Unique No:
 10980954

 Signed:
 Jonathan Hester

 Report Date:
 22 Apr 2024

Contact/Location: RANDY PRZEKURAT - VOLVO6174

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO

