

# CONSTRUCTION EQUIPMENT VOLVO L 180H 5715 - DIESEL ENGINE



Sample No: VCP0004652

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

VOLVO				
SAMPLE IN	IFORMATION			
Sample Number	•	VCP0004652	 	
Sample Date		02 Jul 2023	 	
Machine Hours		670	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		ABNORMAL	 	
OIL CONDI.	TION			
Visc @ 100°C	cSt	<u> 11.1</u>	 	
Base Number (BN)		<b>■</b> 5.2	 	
Oxidation (PA)	%	61	 	
Oxidation (1 A)	70	O1		
VOLVO				
CONTAMIN	IATIUN			
Soot %	%	■ 0.2	 	
Nitration (PA)	%	78	 	
Sulfation (PA)	%	55	 	
Glycol	%	NEG	 	
Fuel	%	■ 0.6	 	
Silicon	ppm	<b>■27</b>	 	
Sodium	ppm	<b>■</b> 5	 	
Potassium	ppm	<b>4</b>	 	
VOLVO				
WEAR ME	TALS			
Iron	ppm	<b>15</b>	 	
Copper	ppm	<u>△</u> 379	 	
Lead	ppm	■3	 	
Tin	ppm	<u></u> 2	 	
Aluminum	ppm	<b>1</b>	 	
Chromium	ppm	■0	 	
Molybdenum	ppm	■89	 	
Nickel	ppm	1	 	
Titanium	ppm	<1	 	
Silver	ppm	<b>■</b> 0	 	
Manganese	ppm	<b>■</b> 3	 	
Vanadium	ppm	<1	 	
ADDITIVES	7			
Calcium		<b>2291</b>	 	
Magnesium	ppm	24		
Zinc	ppm	□ 1208	 	
Phosphorus	ppm	■ 1208 ■ 1012	 	
Barium	ppm	<b>■</b> 0	 	
Boron	ppm	<b>47</b>	 	
DOTOIT	ppm		 	



#### **DUNN CONSTRUCTION INC**

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### 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 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: DUNBEL
Unique No: 10573999
Signed: Don Baldridge
Report Date: 27 Jul 2023



## **CONSTRUCTION EQUIPMENT**





#### GRAPHS







