

# CONSTRUCTION EQUIPMENT SWO-069572 VOLVO L 180H 5715 - DIESEL ENGINE



Sample No: VCP446751

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

**Job No:** SWO-069572

VOLVO					
	NFORMATION				
Sample Number		VCP446751	VCP0004652		
Sample Date		08 Feb 2024	02 Jul 2023		
Machine Hours		1600	670		
Oil Hours		0	0		
Oil Changed		Changed	Changed		
Sample Status		ABNORMAL	ABNORMAL		
OIT CONDI.	TION				
Visc @ 100°C	cSt	<b>12.9</b>	<b>11.1</b>		
Base Number (BN)	mg KOH/g	■9.5	<b>5.2</b>		
Oxidation (PA)	%	74	61		
CONTAMINATION					
			NEC		
Water	%	NEG	NEG		
Soot %	%	<b>■</b> 0.2	0.2		
Nitration (PA)	%	61	78		
Sulfation (PA)	%	58	55 NEC		
Glycol Fuel	%	NEG <1.0	NEG □ 0.6		
Silicon		<b>■8</b>	27		
Sodium	ppm	22	5		
Potassium	ppm	<b>■</b> 22			
Potassium	ppm		<b>4</b>		
VOLVO					
WEAR ME	TALS				
Iron	ppm	<b>■</b> 7	<b>1</b> 5		
Copper	ppm	<u>^</u> 22	<b>△</b> 379		
Lead	ppm	■0	■3		
Tin	ppm	<b>■&lt;1</b>	<b>2</b>		
Aluminum	ppm	<b>1</b>	<b>1</b>		
Chromium	ppm	<b>■&lt;1</b>	0		
Molybdenum	ppm	■ 50	■89		
Nickel	ppm	■1	<b>1</b>		
Titanium	ppm	<1	<1		
Silver	ppm	■0	<b>0</b>		
Manganese	ppm	<b>-</b> <1	■3		
Vanadium	ppm	0	<1		
VOLVO					
ADDITIVES					
Calcium	ppm	<b>1517</b>	□2291		
Magnesium	ppm	<b>473</b>	24		
Zinc	ppm	<b>1112</b>	<b>1208</b>		
Phosphorus	ppm	<b>830</b>	<b>1</b> 012		
Barium	ppm	<b>11</b>	■0		



#### **DUNN CONSTRUCTION INC**

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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 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot:DUNBELUnique No:10882782Signed:Sean FeltonReport Date:16 Feb 2024

ppm

Boron



## **CONSTRUCTION EQUIPMENT**





