

# CONSTRUCTION EQUIPMENT VOLVO L 180H 5717 - DIESEL ENGINE



Sample No: VCP420011

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

Job No:

VOLVO					
SAMPLE II	NFORMATION				
Sample Number	-	VCP420011	VCP424760	VCP415985	
Sample Date		22 Sep 2023	02 Aug 2023	14 Jun 2023	
Machine Hours		1225	880	511	
Oil Hours		0	0	0	
Oil Changed		Changed	Changed	Changed	
Sample Status		ATTENTION	ATTENTION	ABNORMAL	
VOLVO					
OIL CONDI	TION				
Visc @ 100°C	cSt	<b>12.3</b>	<b>△</b> 12.2	<b>△</b> 11.4	
Base Number (BN)	mg KOH/g	<b>10.3</b>	■8.9	<b>6.5</b>	
Oxidation (PA)	%	77	75	55	
CONTAMIN	IATION				
Soot %	%	<b>0.1</b>	□0.2	<b>□</b> 0.1	
Nitration (PA)	%	48	58	77	
Sulfation (PA)	%	59	58	50	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	■0.6	
Silicon	ppm	<b>5</b>	■8	<u>22</u>	
Sodium	ppm	<b>2</b>	<b>1</b> 2	<u></u> 5	
Potassium	ppm	<b>■</b> 0	<1	2	
	•				
WEAR ME	ZIAT				
Iron	ppm	<b>2</b>	<u> </u>	<b>1</b> 1	
Copper	ppm	<b>6</b>	□ 52	▲ 399	
Lead	ppm	■0	□ <1	<b>1</b> 4	
Tin	ppm	<b>■</b> <1	<1	2	
Aluminum	ppm	<b>2</b>	<b>-</b> <1	<b>2</b>	
Chromium	ppm	<b>■&lt;1</b>	<1	■0	
Molybdenum	ppm	<b>61</b>	<u></u> 67	■90	
Nickel	ppm	<b>■</b> 0	<b>0</b>	<b>-</b> <1	
Titanium	ppm	0	<1	<1	
Silver	ppm	<b>■</b> 0	<b>-</b> <1	□ 0	
Manganese	ppm	<b>■ &lt;1</b>	< 1	■3	
Vanadium	ppm	0	<1	<1	
VOLVO					
ADDITIVE:	2				
Calcium	ppm	<b>1643</b>	<b>1730</b>	<b>2281</b>	
Magnesium	ppm	<b>■</b> 524	453	38	
Zinc	ppm	<b>1098</b>	<b>1</b> 093	<b>1216</b>	
Phosphorus	ppm	■909	902	<b>1016</b>	
Barium	ppm	<b>0</b>	<b>0</b>	<b>0</b>	
Boron	ppm	■ 59	<b>4</b> 6	<b>7</b> 5	



#### **ALTA EQUIPMENT 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. All component wear rates are normal. 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:VOLVO0090Unique No:10669212Signed:Don BaldridgeReport Date:28 Sep 2023



## **CONSTRUCTION EQUIPMENT**





