

## CONSTRUCTION EQUIPMENT W02007731 VOLVO A40E 13778 - DIESEL ENGINE



 Sample No:
 VCP418741

 Oil Type:
 MOBIL 15W40

 Job No:
 W02007731

VOLVO				
SAMPLE II	NFORMATION			
Sample Number	-	VCP418741	VCP395660	 
Sample Date		10 Nov 2023	13 Dec 2022	 
Machine Hours		10142	9894	 
Oil Hours		0	0	 
Oil Changed		Changed	Changed	 
Sample Status		ABNORMAL	ATTENTION	 
VOLVO	TION			
OIL CONDI				
Visc @ 100°C	cSt	<u> </u>	<b>1</b> 2.0	 
Base Number (BN)	mg KOH/g	<b>7.0</b>	9.3	 
Oxidation (PA)	%	52	63	 
CONTAMI	NATION			
_	%	<0.1	<0.1	 
Water				
Soot %	%	<b>■</b> 0.2	0.3	 
Nitration (PA)	%	65	63	 
Sulfation (PA)	%	49 NEC	57 NEC	 
Glycol	%	NEG	NEG	 
Fuel	%	<u>▲</u> 3.6	2.5	 
Silicon	ppm	3	1	 
Sodium	ppm	<b>3</b>	0	 
Potassium	ppm	<b>0</b>	■3	 
VOLVO				
<b>WEAR ME</b>	TALS			
Iron	ppm	<b>2</b>	<b>6</b>	 
Copper	ppm	<b>2</b>	<b>3</b>	 
Lead	ppm	<b>=</b> <1	<1	 
Tin	ppm	<b>-</b> <1	<b>-</b> <1	 
Aluminum	ppm	■3	1	 
Chromium	ppm	<b>0</b>	0	 
Molybdenum	ppm	<b>66</b>	<b>1</b> 42	 
Nickel	ppm	<b>□</b> <1	0	 
Titanium	ppm	0	0	 
Silver	ppm	<b>□</b> 0	1	 
Manganese	ppm	<b>■</b> <1	<u> </u>	 
Vanadium	ppm	0	0	 
	70		- U	
VOLVO	_			
<b>ADDITIVE</b>	7			
Calcium	ppm	<b>2051</b>	■1633	 
Magnesium	ppm	<b>75</b>	<b>426</b>	 
7.		_4477	<b>-1104</b>	

**1104** 

□962

**0** 

**5**4



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## Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot:VOLVO0002Unique No:10743053Signed:Wes DavisReport Date:20 Nov 2023

**1177** 

**1018** 

**0** 

**66** 

ppm

ppm

ppm

ppm

Zinc

Barium

Boron

Phosphorus



## **CONSTRUCTION EQUIPMENT**





