

### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# VOLVO EC480E 315257

**Diesel Engine** Fluid

{not provided} (--- GAL)

#### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### 🔺 Wear

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.

#### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

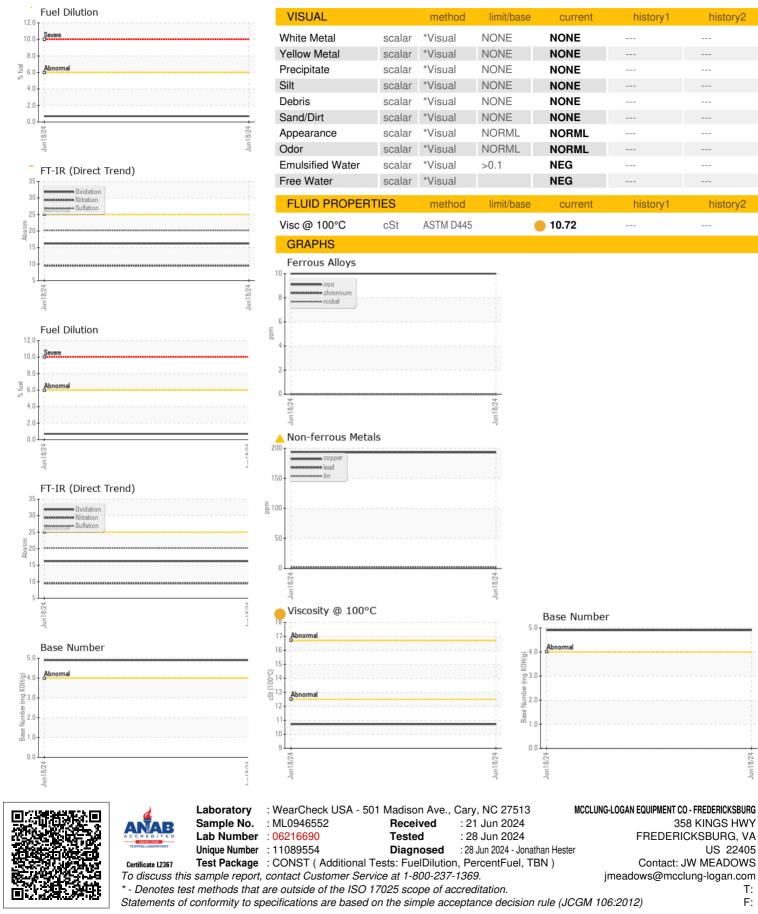
#### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ML0946552		
Sample Date		Client Info		18 Jun 2024		
Machine Age	hrs	Client Info		520		
Oil Age	hrs	Client Info		520		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	3		
Lead	ppm	ASTM D5185m	>20	<1		
Copper	ppm	ASTM D5185m	>15	<u> </u>		
Tin	ppm	ASTM D5185m	>10	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		46		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		92		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m		58		
Calcium	ppm	ASTM D5185m		2288		
Phosphorus	ppm	ASTM D5185m		1063		
Zinc	ppm	ASTM D5185m		1257		
Sulfur	ppm	ASTM D5185m		4382		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	25		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	5		
Fuel	%	ASTM D3524	>6.0	0.7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	9.5		
Cultation	Abs/.1mm	*ASTM D7415	>30	20.2		
Sulfation						
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	TION Abs/.1mm	method *ASTM D7414	limit/base	current 16.2	history1	history2



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Contact/Location: JW MEADOWS - MCCFRE