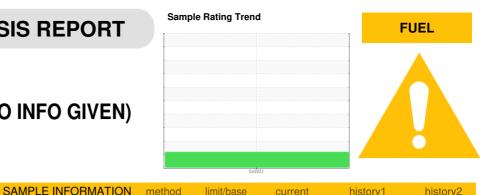


## **OIL ANALYSIS REPORT**



## NOT GIVEN WC0843369 (S/N NO INFO GIVEN) Component

**Diesel Engine** Elui

### ALPHA 15W40 PREMIUM (--- GAL)

#### DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of fuel present in the oil.

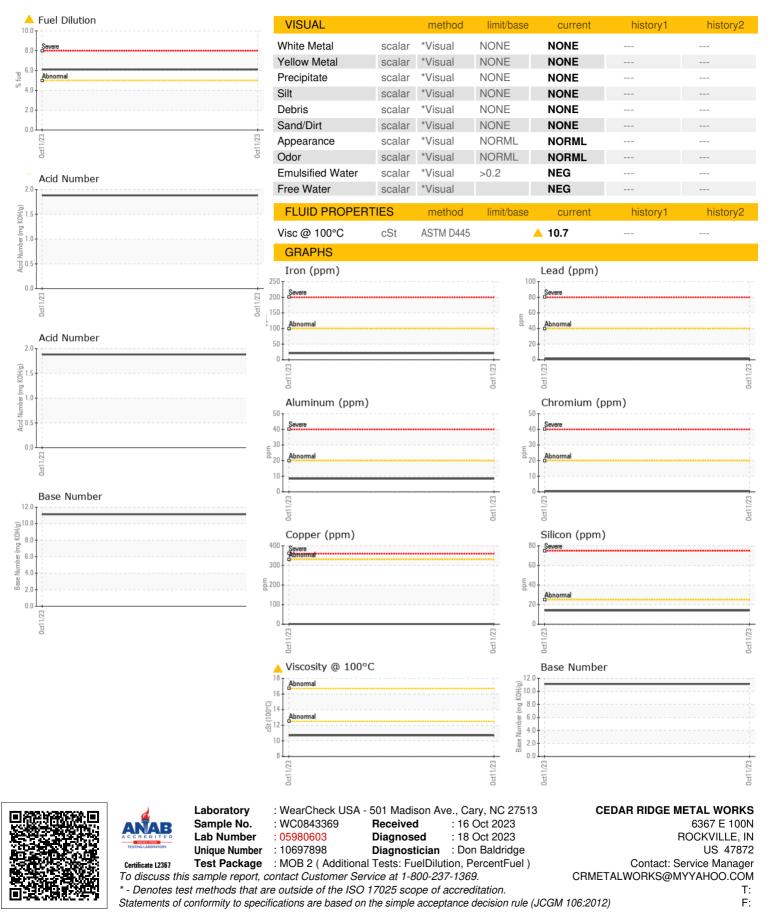
#### Fluid Condition

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 AN level is acceptable for this fluid.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843369		
Sample Date		Client Info		11 Oct 2023		
Machine Age	hrs	Client Info		5411		
Oil Age	hrs	Client Info		507		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	21		
Chromium	ppm		>20	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m		8		
Lead	ppm	ASTM D5185m	>40	1		
Copper	ppm	ASTM D5185m		1		
Tin	ppm	ASTM D5185m	>15	، <1		
Vanadium	ppm	ASTM D5185m	>15	0		
Cadmium		ASTM D5185m		0		
Gaumium	ppm			U		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		187		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		3792		
Phosphorus	ppm	ASTM D5185m		1046		
Zinc	ppm	ASTM D5185m		1252		
Sulfur	ppm	ASTM D5185m		4537		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon						
Shicon	ppm	ASTM D5185m	>25	14		
	ppm ppm	ASTM D5185m ASTM D5185m	>25	14 2		
Sodium			>25 >20			
Sodium Potassium	ppm	ASTM D5185m	>20	2	 	  
Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20	2 2	   history1	
Sodium Potassium Fuel INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m ASTM D3524	>20 >5	2 2 ▲ 6.1		
Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D3524 method	>20 >5 limit/base >3	2 2 ▲ 6.1 current		  history2
Sodium Potassium Fuel	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>20 >5 limit/base >3 >20	2 2 ▲ 6.1 current 0.2	history1	 history2
Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm % % Abs/cm Abs/cm	ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624	>20 >5 limit/base >3 >20	2 2 ▲ 6.1 <u>current</u> 0.2 11.7	history1 	 history2 
Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm % % Abs/cm Abs/cm	ASTM D5185m ASTM D5185m ASTM D3524 <b>method</b> *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >5 limit/base >3 >20 >30 limit/base	2 2 ▲ 6.1 <u>current</u> 0.2 11.7 43.3	history1  	 history2  
Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm % Abs/cm Abs/cm Abs/1mm	ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7824 *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>20 >5 limit/base >3 >20 >30 limit/base	2 2 ▲ 6.1 0.2 11.7 43.3 current	history1  	 history2  



# **OIL ANALYSIS REPORT**



Contact/Location: Service Manager - CEDROC