

# **OIL ANALYSIS REPORT**



## DE Samples - CAT LAB CATERPILLAR 420 FST BACKHOE 6010 (S/N SKR04232) Component

**Diesel Engine** 

TULCO LUBSOIL DIESEL TURBO CJ4 15W40 (--- GAL)

Oil Age

Fuel

Water

Iron

Nickel

Silver

Lead

Tin

Copper

Antimony

Vanadium

Cadmium

Boron

Barium

Manganese

Magnesium

Phosphorus

Calcium

Zinc

Sulfur

Titanium

Aluminum

Chromium



CONTAIVIINANTS		method	iiiiii/base	current	nistory i	TIIStory2
Silicon	ppm	ASTM D5185m	>25	14	<b>3</b> 9	7
Sodium	ppm	ASTM D5185m		<u> </u>	2	3
Potassium	ppm	ASTM D5185m	>20	<mark>人</mark> 39	2	1
Glycol	%	*ASTM D2982		0.10	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED Soot %	%	method *ASTM D7844		current 0.7	history1 0.2	history2 0
	% Abs/cm		>3			

FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	14.4	11.
Base Number (BN)	mg KOH/g	ASTM D2896	8.21	11.41	10.3	8.33

DIAGNOSIS

### Recommendation

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

#### Contamination

Test for glycol is positive. There is a high concentration of glycol present in the oil.

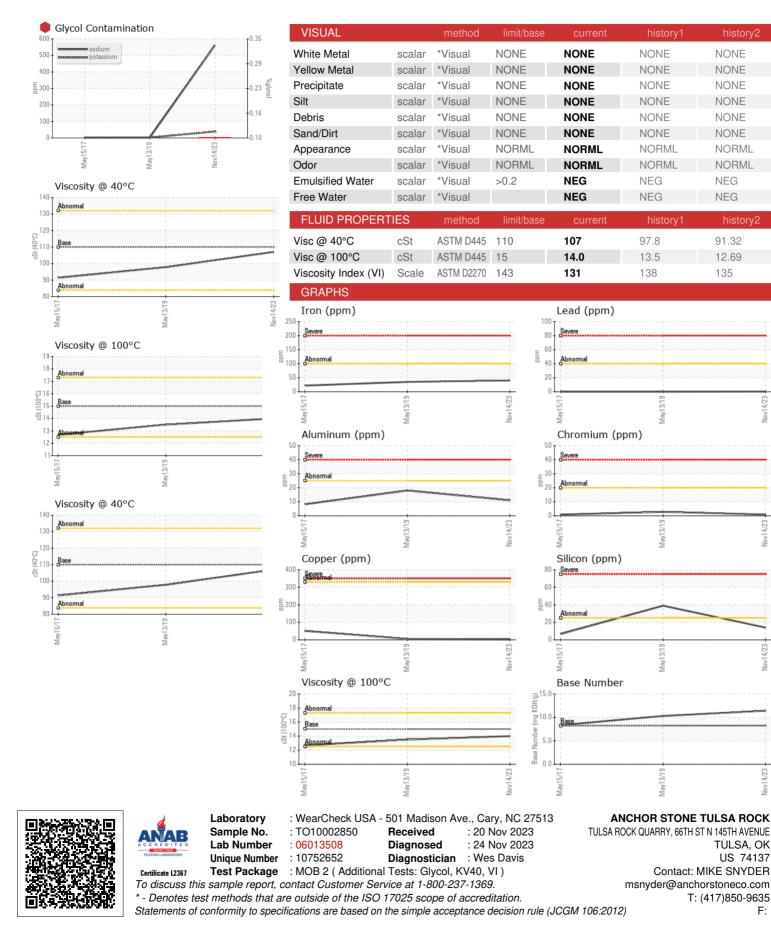
#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Submitted By: SKIP SAENGERHAUSEN



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