

# **OIL ANALYSIS REPORT**

GLYCOL

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# DIAGNOSIS

#### Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the fuel injection system. Oil and filter 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

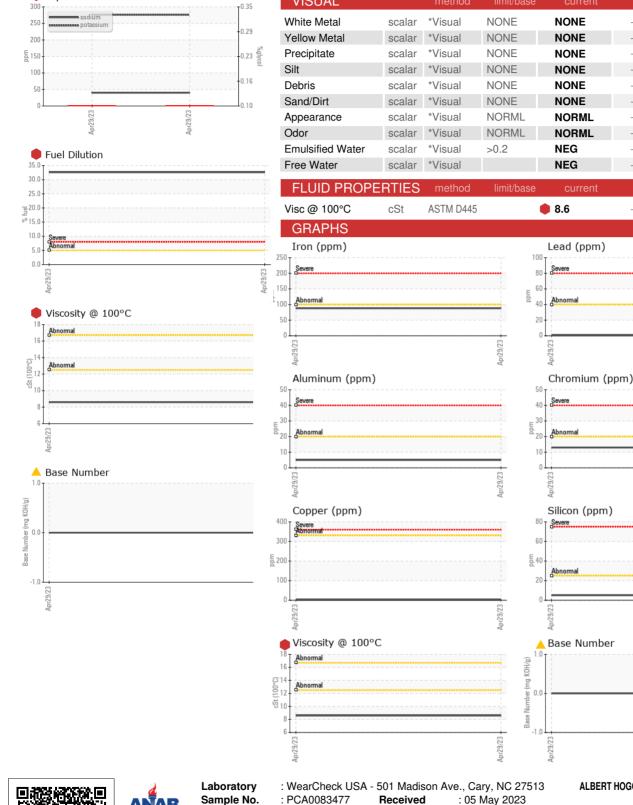
Sodium and/or potassium levels are high. Test for glycol is positive. There is a high amount of fuel present in the oil.

# Fluid Condition

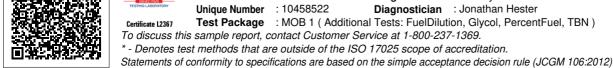
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORI	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0083477		
Sample Date		Client Info		29 Apr 2023		
Machine Age	mls	Client Info		0		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	88		
Chromium	ppm	ASTM D5185m	>20	13		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	5		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	2		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		23		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		27		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		264		
Calcium	ppm	ASTM D5185m		893		
Phosphorus	ppm	ASTM D5185m		439		
Zinc	ppm	ASTM D5185m		484		
Sulfur	ppm	ASTM D5185m		1587		
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	5		
Sodium	ppm	ASTM D5185m		<u> </u>		
Potassium	ppm	ASTM D5185m	>20	<b>A</b> 276		
Fuel	%	ASTM D3524	>5	<b>ම</b> 32.6		
Glycol	%	*ASTM D2982		• 0.10		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	14.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.8		
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	56.5		
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 0.0		

# Report Id: OILELD [WUSCAR] 05839719 (Generated: 07/11/2023 15:12:26) Rev: 1



ALBERT HOGOBOOM OILFIELD TRUCKING INC 767 OIL HILL ROAD EL DORADO, KS US 67042 Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel, TBN) Contact: LOREN JACK loren@hogoboom.net Т: F: (316)321-1396



OIL

DIAGNOSTICS

Glycol Contamination

Lab Number

Unique Number

: 05839719

: 10458522

Diagnosed

: 10 May 2023

Diagnostician : Jonathan Hester

Contact/Location: LOREN JACK - OILELD

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history 1

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VISUAL