

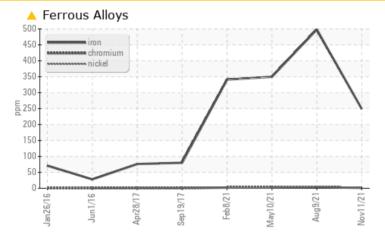
# **PROBLEM SUMMARY**

## Area DEX Machine Id A48T22A - F MIXER BOX NORTH DRIVE GEARBOX Component

Gearbox Fluid

## PETRO CANADA PURITY FG SYNTH EP GEAR 220 (--- GAL)

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>200	<u> </u>	<b>4</b> 98	<b>A</b> 350

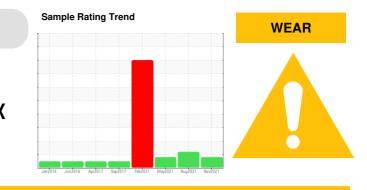
Customer Id: INGBED Sample No.: WC0607423 Lab Number: 05404752 Test Package: IND 2



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*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



## **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

## 09 Aug 2021 Diag: Jonathan Hester

WEAR



We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.Gear wear is indicated. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## 10 May 2021 Diag: Don Baldridge

08 Feb 2021 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.Gear wear is indicated. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### DEGRADATION



We advise that you check for a possible overheat condition. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.



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Report Id: INGBED [WUSCAR] 05404752 (Generated: 10/01/2023 04:42:35) Rev: 1



# **OIL ANALYSIS REPORT**

# Area DEX A48T22A - F MIXER BOX NORTH DRIVE GEARBOX Component

Gearbox Fluic

A Wear

## PETRO CANADA PURITY FG SYNTH EP GEAR 220 (--- GAL)

### SAMPLE INFORMATION DIAGNOSIS method limit/base current history1 history2 WC0607423 WC0608479 WC0573958 Sample Number **Client Info** Recommendation No corrective action is recommended at this time. Sample Date Client Info 11 Nov 2021 09 Aug 2021 10 May 2021 Resample at the next service interval to monitor. 0 Machine Age hrs Client Info 0 0 Oil Age hrs Client Info 0 0 0 Gear wear is indicated. Oil Changed N/A N/A N/A **Client Info** Sample Status ABNORMAL ABNORMAL ABNORMAL Contamination The water content is negligible. There is no WEAR METALS method limit/base current history1 history2 indication of any contamination in the oil. >200 249 498 ▲ 350 Iron ppm ASTM D5185m Fluid Condition Chromium ASTM D5185m 4 2 ppm >15 1 The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. Nickel ppm ASTM D5185m >15 <1 5 3 Titanium ASTM D5185m 0 ppm <1 <1 0 0 Silver ppm ASTM D5185m 0 Aluminum ASTM D5185m >25 ppm <1 <1 <1 Lead ASTM D5185m >100 0 0 ppm <1 ASTM D5185m >200 1 Copper ppm <1 1 Tin ppm ASTM D5185m >25 0 <1 <1 ASTM D5185m 0 0 0 Antimony ppm Vanadium ppm ASTM D5185m 0 0 0 ASTM D5185m 0 0 0 Cadmium ppm **ADDITIVES** method limit/base current history historv2 2 Boron ppm ASTM D5185m 1 1 0 ASTM D5185m 0 0 Barium ppm Molybdenum ppm ASTM D5185m <1 2 2 2 5 4 Manganese ASTM D5185m ppm 0 0 0 Magnesium ASTM D5185m ppm 0 Calcium ppm ASTM D5185m 0 <1 Phosphorus ASTM D5185m 291 363 384 ppm ASTM D5185m 0 0 0 Zinc ppm Sulfur ASTM D5185m 963 1056 887 ppm CONTAMINANTS method limit/base history2 current history Silicon >50 3 2 ppm ASTM D5185m 1 Sodium ASTM D5185m 0 0 ppm n Potassium ASTM D5185m >20 0 0 <1 ppm **FLUID DEGRADATION** history2 method limit/base current history1 Acid Number (AN) ASTM D8045 0.59 0.605 1.103 mg KOH/g 0.275 VISUAL method limit/base current history1 history2 White Metal scalar \*Visual NONE NONE NONE NONE scalar NONE Yellow Metal \*Visual NONE NONE NONE Precipitate scalar \*Visual NONE NONE NONE NONE Silt \*Visual NONE scalar NONE NONE NONE Debris scalar \*Visual NONE VLITE MODER LIGHT NONE NONE Sand/Dirt scalar \*Visual NONE NONE \*Visual NORML Appearance scalar NORML NORML NORML NORML NORML Odor scalar \*Visual NORML NORML **Emulsified Water** scalar \*Visual >0.2 NEG 0.2% NEG

scalar \*Visual

Sample Rating Trend

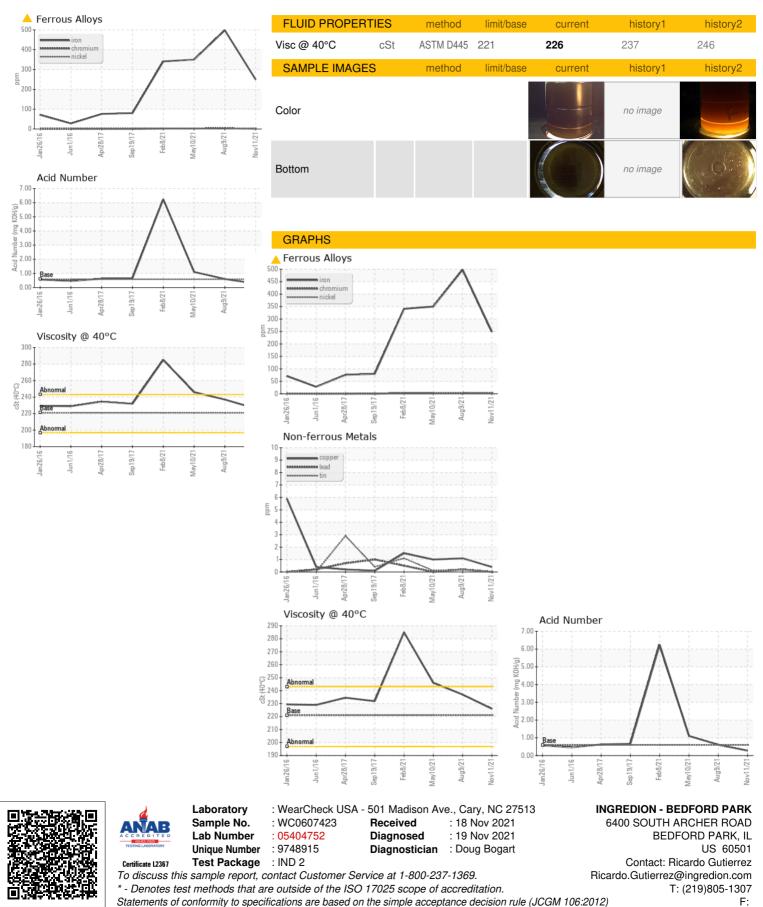
WEAR

on: Ricecto Gutierrezielle GBED

NEG



# **OIL ANALYSIS REPORT**



Contact/Location: Ricardo Gutierrez - INGBED