



# PROBLEM SUMMARY

Sample Rating Trend

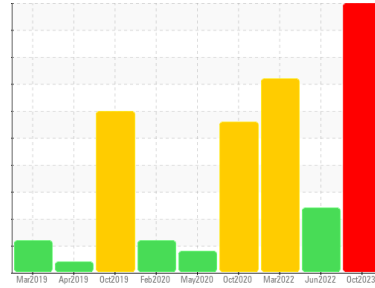
WEAR



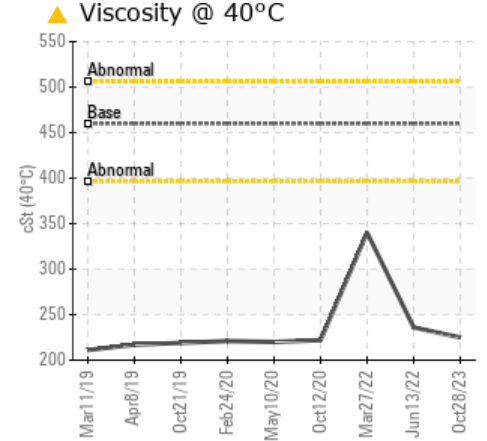
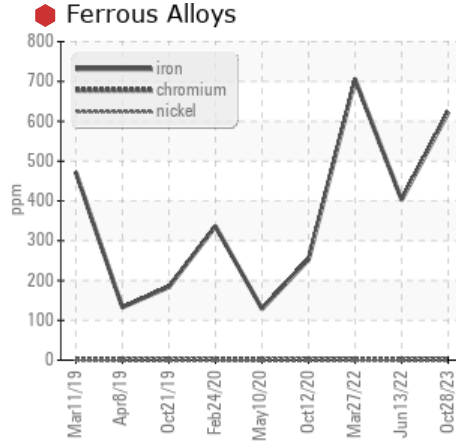
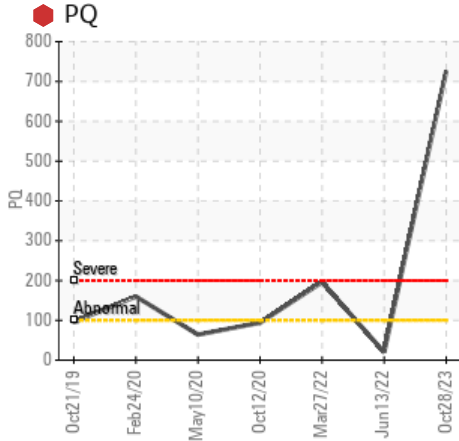
Machine Id  
**MIX CENTER 3 - EAST (S/N 10037016)**

Component  
**Gearbox**

Fluid  
**PETRO CANADA PURITY FG EP GEAR FLUID 460 (--- GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status	ASTM D8184	SEVERE	ABNORMAL	SEVERE
PQ		726	20	196
Iron	ppm ASTM D5185m >200	623	403	705

Customer Id: WORZAN  
Sample No.: WC0752751  
Lab Number: 06058277  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### 13 Jun 2022 Diag: Don Baldrige

#### WEAR



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. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

[view report](#)



### 27 Mar 2022 Diag: Don Baldrige

#### WEAR



We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. Gear wear is indicated. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

[view report](#)



### 12 Oct 2020 Diag: Jonathan Hester

#### WATER



We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. Gear wear is indicated. Free water present. There is a trace of moisture present in the oil. Moderate concentration of visible dirt/debris present in the oil. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

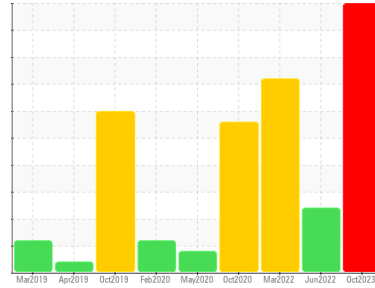
[view report](#)





# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id  
**MIX CENTER 3 - EAST (S/N 10037016)**

Component

**Gearbox**

Fluid

**PETRO CANADA PURITY FG EP GEAR FLUID 460 (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### Wear

The iron level is severe. Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0752751</b>	WC0518562	WC0483219
Sample Date	Client Info		<b>28 Oct 2023</b>	13 Jun 2022	27 Mar 2022
Machine Age	mths	Client Info	<b>6</b>	0	6
Oil Age	mths	Client Info	<b>6</b>	6	6
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>SEVERE</b>	ABNORMAL	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>726</b>	20	196
Iron	ppm	ASTM D5185m >200	<b>623</b>	403	705
Chromium	ppm	ASTM D5185m >15	<b>2</b>	1	2
Nickel	ppm	ASTM D5185m >15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	1	2
Lead	ppm	ASTM D5185m >100	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m >200	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m >25	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185m >5	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	1	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>4</b>	3	5
Magnesium	ppm	ASTM D5185m	<b>0</b>	1	1
Calcium	ppm	ASTM D5185m	<b>0</b>	23	5
Phosphorus	ppm	ASTM D5185m 135	<b>383</b>	334	238
Zinc	ppm	ASTM D5185m	<b>0</b>	2	0
Sulfur	ppm	ASTM D5185m 660	<b>582</b>	586	785

## CONTAMINANTS

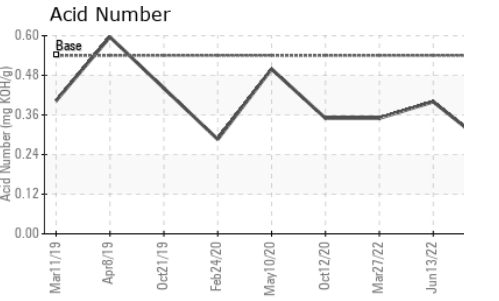
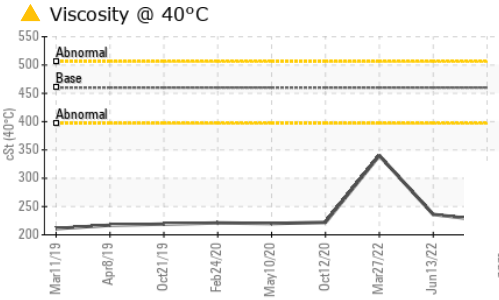
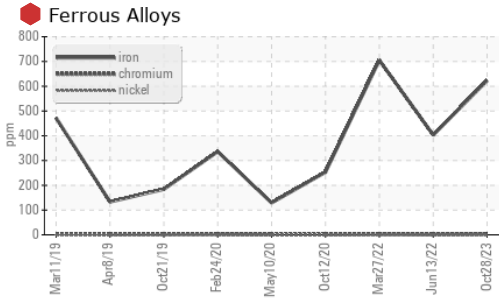
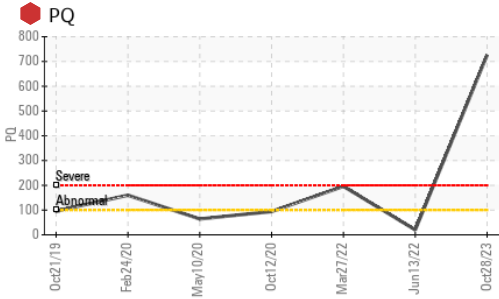
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>6</b>	6	11
Sodium	ppm	ASTM D5185m	<b>3</b>	3	11
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	2	2

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.54	<b>0.27</b>	0.40	0.35



# OIL ANALYSIS REPORT



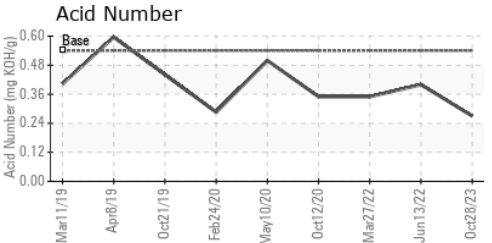
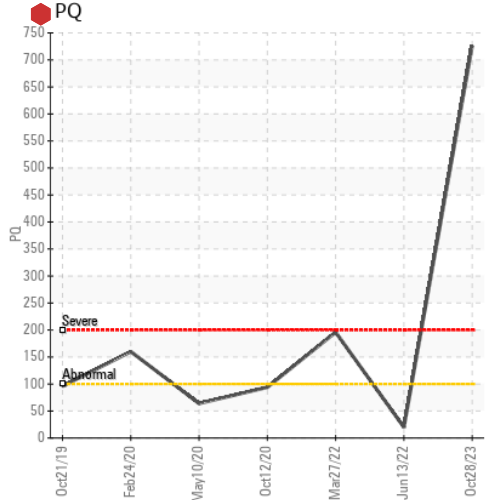
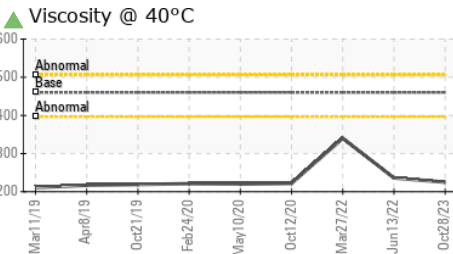
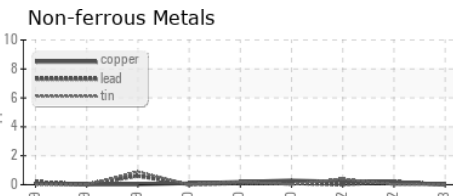
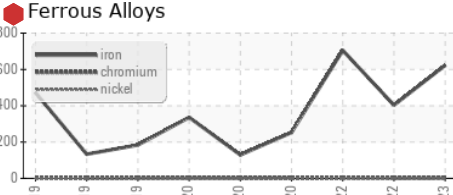
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	NONE
Debris	scalar	*Visual	NONE	LIGHT	MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	HAZY	MILKY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	460	225	236

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color					
Bottom					

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0752751      Recieved : 11 Jan 2024  
 Lab Number : 06058277      Diagnosed : 14 Jan 2024  
 Unique Number : 10829659      Diagnostician : Don Baldrige  
 Test Package : IND 2 ( Additional Tests: PQ )

**WORTHINGTON FOODS INC**  
 1675 FAIRVIEW ROAD  
 ZANESVILLE, OH  
 US 43701-5168  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:  
F: