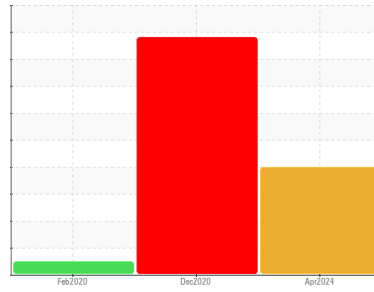


# PROBLEM SUMMARY

Machine Id  
**DR180**  
Component  
**Transmission (Auto)**  
Fluid  
**PETRO CANADA SYNTHETIC BLEND ATF (58 LTR)**

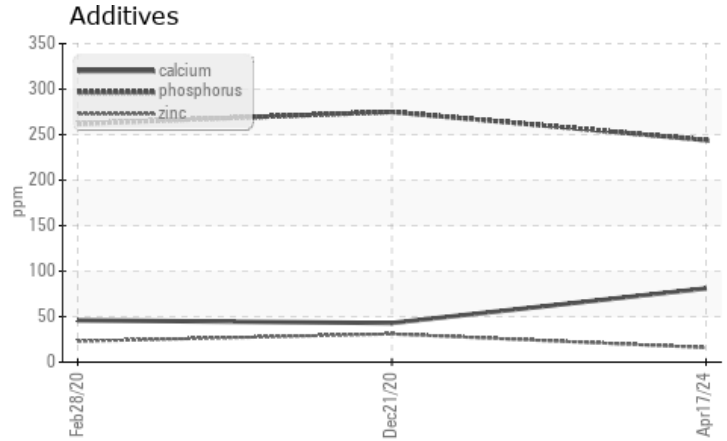
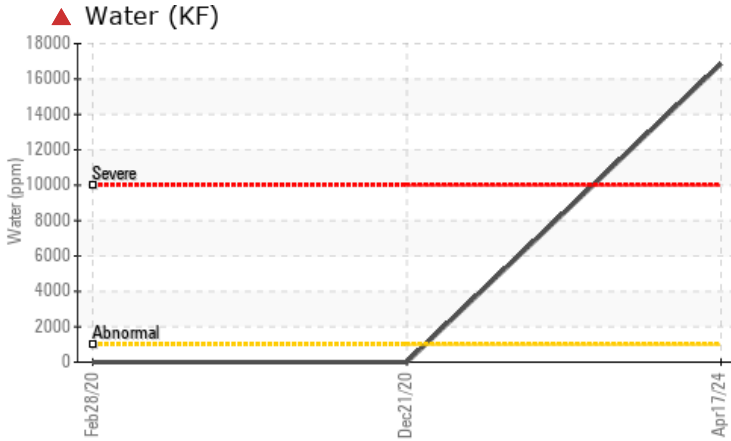
Sample Rating Trend



**WATER**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. The fluid change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	NORMAL
Water	%	ASTM D6304*	>0.1	▲ <b>1.686</b>	---	---
ppm Water	ppm	ASTM D6304*	>1000	▲ <b>16862</b>	---	---
Appearance	scalar	Visual*	NORML	▲ <b>MILKY</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	▲ <b>.5%</b>	NEG	NEG

Customer Id: GFL286  
Sample No.: PC0087907  
Lab Number: 02631367  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
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[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

To change component or sample information:  
Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

### VISUAL METAL



#### 21 Dec 2020 Diag: Kevin Marson

We advise that you check for visible metal particles in the fluid. The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF). The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DEXRON III. Please confirm. Iron ppm levels are abnormal. Moderate concentration of visible metal present. Gear wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the fluid. The AN level is acceptable for this fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

view report



### NORMAL

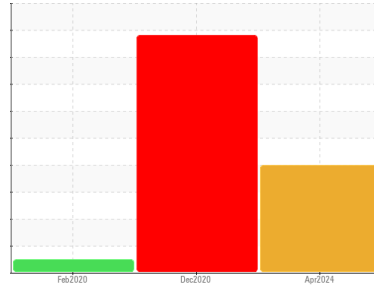


#### 28 Feb 2020 Diag: Bill Quesnel

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

view report





Machine Id  
**DR180**  
Component  
**Transmission (Auto)**  
Fluid  
**PETRO CANADA SYNTHETIC BLEND ATF (58 LTR)**

**DIAGNOSIS**

**Recommendation**

We advise that you check for the source of water entry. The fluid change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

**Wear**

All component wear rates are normal.

**Contamination**

There is a high concentration of water present in the fluid.

**Fluid Condition**

Additive levels indicate the addition of a different brand, or type of fluid. The AN level is acceptable for this fluid. The fluid is no longer serviceable due to the presence of contaminants.

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0087907</b>	PC0035373	PC0026282
Sample Date	Client Info	<b>17 Apr 2024</b>	21 Dec 2020	28 Feb 2020
Machine Age	hrs	<b>9021</b>	6562	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>Changed</b>	Changed	N/A
Sample Status		<b>SEVERE</b>	SEVERE	NORMAL

**WEAR METALS**

method	limit/base	current	history1	history2		
PQ	ASTM D8184*	>50	<b>0</b>	17	---	
Iron	ppm	ASTM D5185(m)	>160	<b>16</b>	▲ 206	157
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	2	2
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	<1	3
Lead	ppm	ASTM D5185(m)	>50	<b>0</b>	2	2
Copper	ppm	ASTM D5185(m)	>225	<b>2</b>	27	43
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	2	4
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**ADDITIVES**

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)	90	<b>80</b>	109	124
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	2	<1
Manganese	ppm	ASTM D5185(m)		<b>0</b>	2	2
Magnesium	ppm	ASTM D5185(m)		<b>2</b>	11	3
Calcium	ppm	ASTM D5185(m)	30	<b>81</b>	43	46
Phosphorus	ppm	ASTM D5185(m)	310	<b>244</b>	275	262
Zinc	ppm	ASTM D5185(m)	40	<b>16</b>	31	23
Sulfur	ppm	ASTM D5185(m)	2800	<b>839</b>	934	786
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	2

**CONTAMINANTS**

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>20	<b>8</b>	8	17
Sodium	ppm	ASTM D5185(m)		<b>1</b>	1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	2
Water	%	ASTM D6304*	>0.1	<b>▲ 1.686</b>	---	---
ppm Water	ppm	ASTM D6304*	>1000	<b>▲ 16862</b>	---	---

**FLUID CLEANLINESS**

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>10000	<b>235689</b>	---	---
Particles >6µm	ASTM D7647	>2500	<b>28543</b>	---	---
Particles >14µm	ASTM D7647	>320	<b>543</b>	---	---
Particles >21µm	ASTM D7647	>80	<b>113</b>	---	---
Particles >38µm	ASTM D7647	>20	<b>8</b>	---	---
Particles >71µm	ASTM D7647	>4	<b>1</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>25/22/16</b>	---	---

