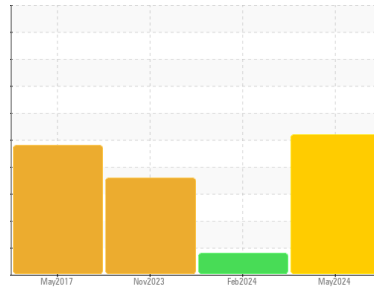




PROBLEM SUMMARY

Sample Rating Trend

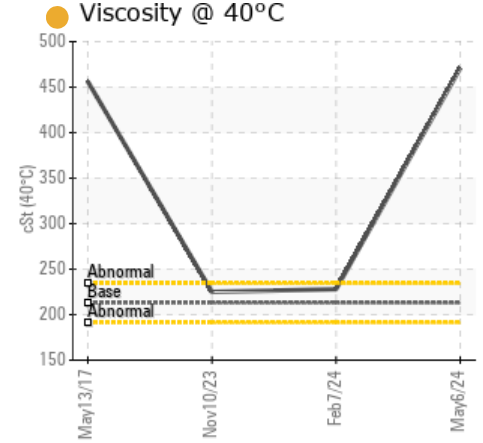
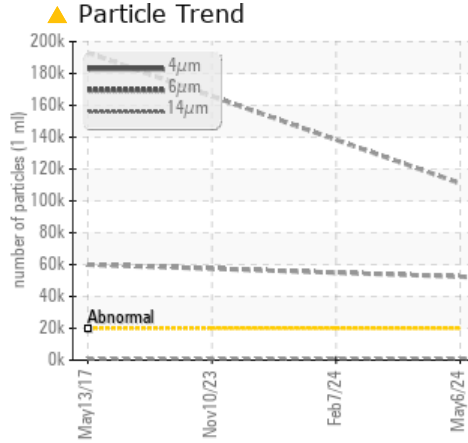
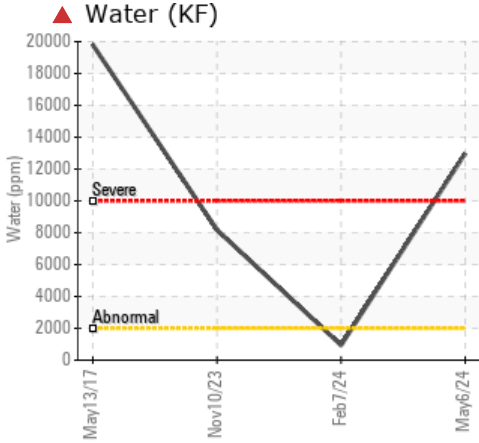


WATER



Machine Id
TIGEARZ BRIGHT COOP METERING BELT (S/N BT160371571)
 Component
Gearbox
 Fluid
PETRO CANADA PURITY FG SYN GEAR ISO 220 (1 QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.2	▲ 1.298	0.094	▲ 0.818
ppm Water	ppm	ASTM D6304	>2000	▲ 12982	940	▲ 8180
Particles >4µm		ASTM D7647	>20000	▲ 111025	---	---
Particles >6µm		ASTM D7647	>5000	▲ 52423	---	---
Particles >14µm		ASTM D7647	>640	▲ 1118	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/23/17	---	---

Customer Id: TYSTEC
 Sample No.: USP0012473
 Lab Number: 06202793
 Test Package: IND 2



To manage this report scan the QR code

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

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

SEDIMENT



07 Feb 2024 Diag: Doug Bogart

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a moderate amount of visible silt present in the sample. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

[view report](#)



WATER



10 Nov 2023 Diag: Doug Bogart

We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles and water present in this sample. All component wear rates are normal. Appearance is unacceptable. There is a high concentration of water present in the oil. There is a moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

[view report](#)



WATER



13 May 2017 Diag: Don Baldrige

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 amount of particulates present in the oil. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

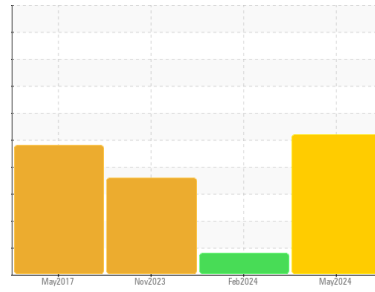
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
TIGEARZ BRIGHT COOP METERING BELT (S/N BT160371571)
 Component
Gearbox
 Fluid
PETRO CANADA PURITY FG SYN GEAR ISO 220 (1 QTS)

DIAGNOSIS

▲ Recommendation

We advise that you follow the water drain-off procedure for this component and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of particulates present in the oil. There is a high concentration of water present in the oil. Confirmed.

● Fluid Condition

The oil viscosity is higher than normal. Confirmed. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USP0012473	USP0007471	USP0003873
Sample Date	Client Info		06 May 2024	07 Feb 2024	10 Nov 2023
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			SEVERE	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	2	140	60
Chromium	ppm	ASTM D5185m >15	<1	1	<1
Nickel	ppm	ASTM D5185m >15	<1	<1	<1
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	2	<1	2
Lead	ppm	ASTM D5185m >100	0	0	0
Copper	ppm	ASTM D5185m >200	2	3	2
Tin	ppm	ASTM D5185m >25	<1	<1	<1
Antimony	ppm	ASTM D5185m >5	---	---	---
Vanadium	ppm	ASTM D5185m	0	<1	<1
Cadmium	ppm	ASTM D5185m	<1	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	4
Molybdenum	ppm	ASTM D5185m	0	<1	<1
Manganese	ppm	ASTM D5185m	0	2	<1
Magnesium	ppm	ASTM D5185m	<1	2	2
Calcium	ppm	ASTM D5185m	0	0	2
Phosphorus	ppm	ASTM D5185m	475	380	340
Zinc	ppm	ASTM D5185m	0	1	0
Sulfur	ppm	ASTM D5185m	581	1035	1172

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	3	4	4
Sodium	ppm	ASTM D5185m	17	1	0
Potassium	ppm	ASTM D5185m >20	<1	5	4
Water	%	ASTM D6304 >0.2	▲ 1.298	0.094	▲ 0.818
ppm Water	ppm	ASTM D6304 >2000	▲ 12982	940	▲ 8180

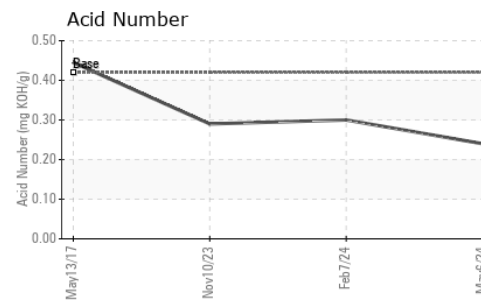
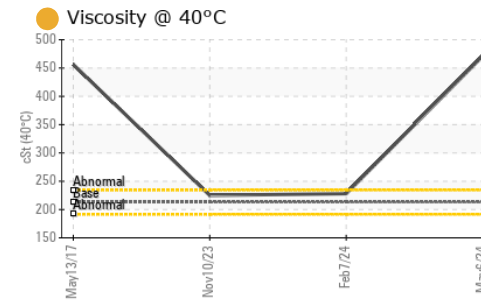
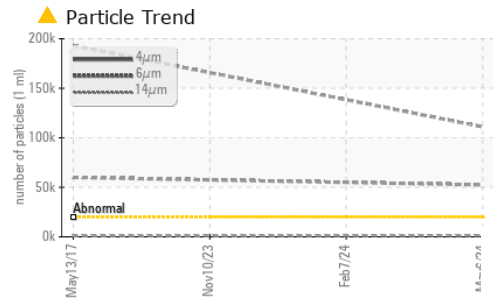
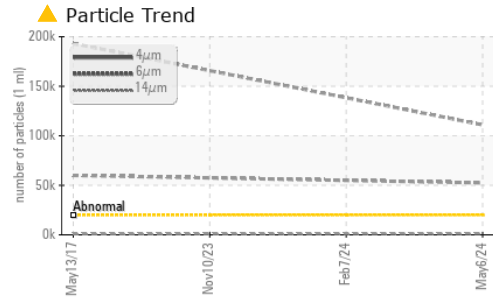
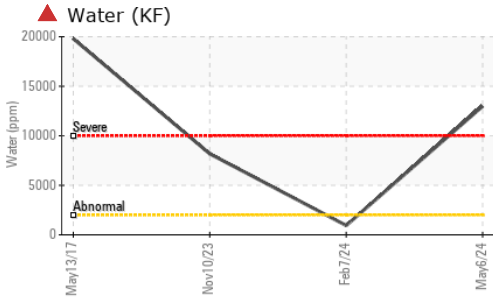
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 111025	---	---
Particles >6µm	ASTM D7647	>5000	▲ 52423	---	---
Particles >14µm	ASTM D7647	>640	▲ 1118	---	---
Particles >21µm	ASTM D7647	>160	112	---	---
Particles >38µm	ASTM D7647	>40	3	---	---
Particles >71µm	ASTM D7647	>10	0	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/23/17	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.42	0.24	0.30	0.29

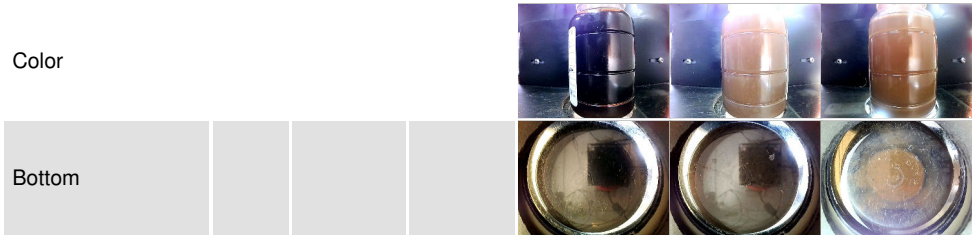
OIL ANALYSIS REPORT



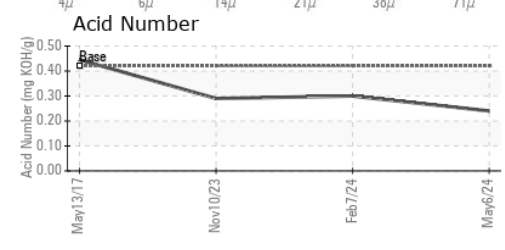
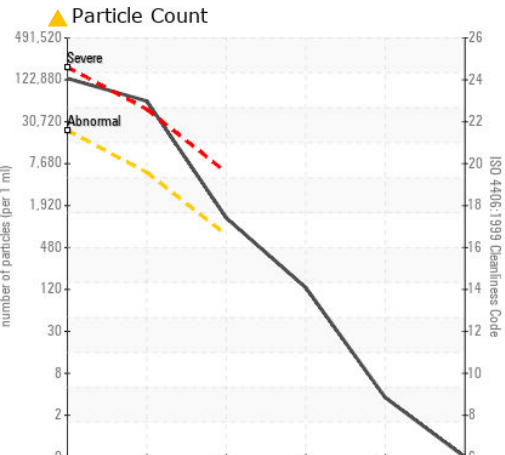
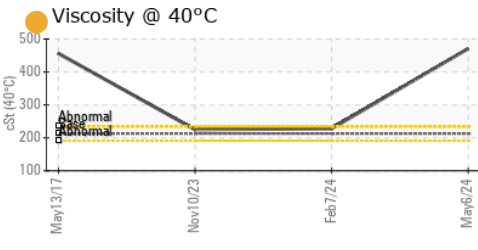
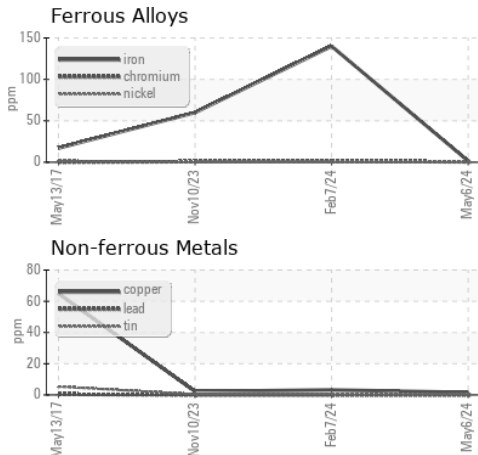
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	▲ MODER
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● 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	213	● 470.9	228	225

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0012473
Lab Number : 06202793
Unique Number : 11070254
Test Package : IND 2
Received : 07 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 2024 - Doug Bogart

TYSON - SMART CHICKEN MBA
 333 SOUTH 3RD ST
 TECUMSEH, NE
 US 68450
 Contact: DAVE BILLUPS
 dbillups@smartchicken.com
 T: (402)786-1000
 F: (402)335-2502

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)