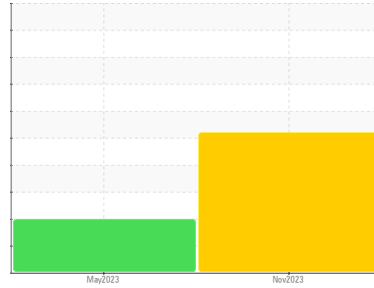




PROBLEM SUMMARY

Area
HOTLINE/120 MILL
 Machine Id
#2 PINCH ROLL REDUCER BTM 1415-004-0080 BTM
 Component
Bottom Gearbox
 Fluid
CITGO COMPOUND EP 320 (20 GAL)

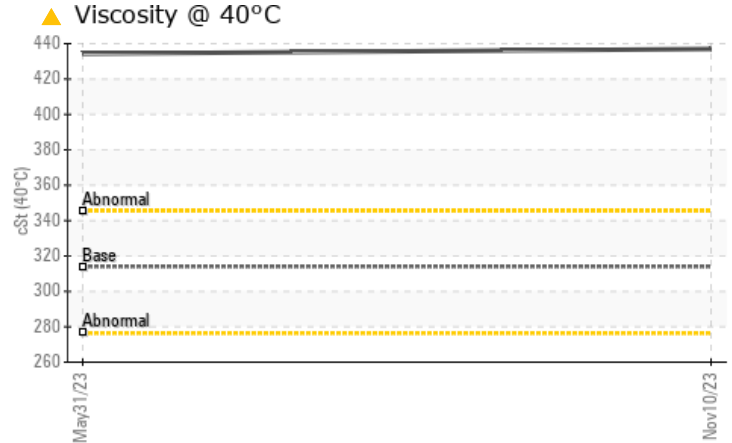
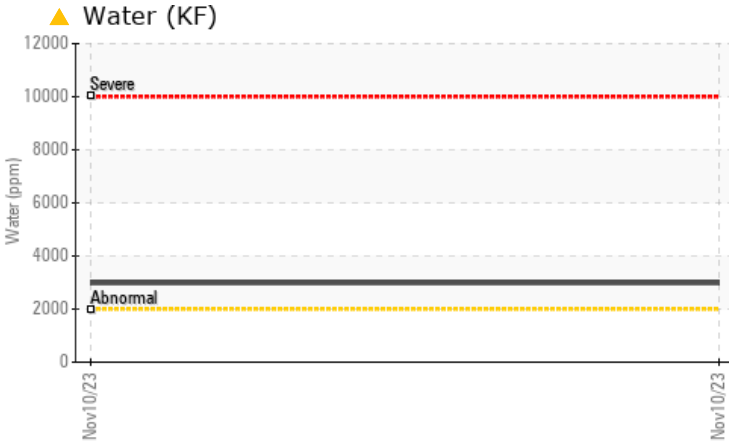
Sample Rating Trend



WATER



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. 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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	---
Water	%	ASTM D6304	>0.2	▲ 0.298	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2980	---	---
Silt	scalar	*Visual	NONE	▲ HEAVY	NONE	---
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	---
Free Water	scalar	*Visual		▲ 1.0	NEG	---
Visc @ 40°C	cSt	ASTM D445	314	▲ 437	▲ 434.3	---

Customer Id: CONMUSAL
 Sample No.: KFS0004816
 Lab Number: 06007671
 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.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

31 May 2023 Diag: Jonathan Hester

VISCOSITY



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

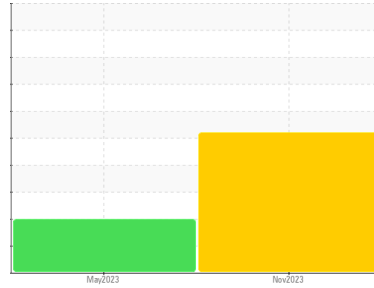
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
HOTLINE/120 MILL
 Machine Id
#2 PINCH ROLL REDUCER BTM 1415-004-0080 BTM
 Component
Bottom Gearbox
 Fluid
CITGO COMPOUND EP 320 (20 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. 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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. There is a high amount of visible silt present in the sample. There is a light concentration of water present in the oil. Free water present.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KFS0004816	KFS0003346	---
Sample Date	Client Info		10 Nov 2023	31 May 2023	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	7	97
Chromium	ppm	ASTM D5185m	>15	0	0
Nickel	ppm	ASTM D5185m	>15	0	0
Titanium	ppm	ASTM D5185m		0	<1
Silver	ppm	ASTM D5185m		0	0
Aluminum	ppm	ASTM D5185m	>25	<1	4
Lead	ppm	ASTM D5185m	>100	0	<1
Copper	ppm	ASTM D5185m	>200	4	11
Tin	ppm	ASTM D5185m	>25	0	0
Vanadium	ppm	ASTM D5185m		0	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	3
Barium	ppm	ASTM D5185m		0	0
Molybdenum	ppm	ASTM D5185m		0	0
Manganese	ppm	ASTM D5185m		0	1
Magnesium	ppm	ASTM D5185m		<1	0
Calcium	ppm	ASTM D5185m		1	<1
Phosphorus	ppm	ASTM D5185m		104	91
Zinc	ppm	ASTM D5185m		2	0
Sulfur	ppm	ASTM D5185m		5135	7374

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	2
Sodium	ppm	ASTM D5185m		0	2
Potassium	ppm	ASTM D5185m	>20	<1	<1
Water	%	ASTM D6304	>0.2	▲ 0.298	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2980	---

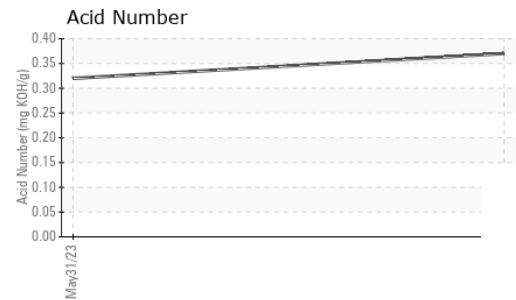
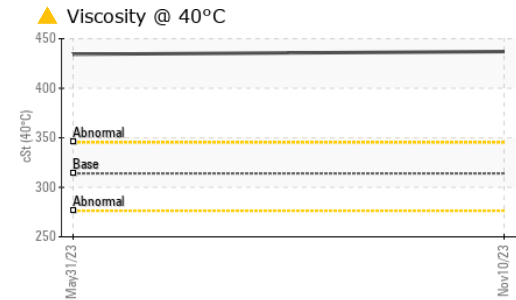
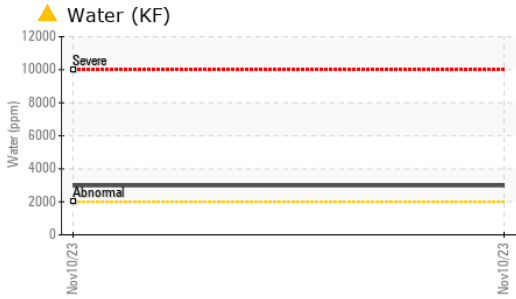
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	---	▲ 235713	---
Particles >6µm	ASTM D7647	>5000	---	▲ 99834	---
Particles >14µm	ASTM D7647	>640	---	▲ 698	---
Particles >21µm	ASTM D7647	>160	---	▲ 102	---
Particles >38µm	ASTM D7647	>40	---	▲ 7	---
Particles >71µm	ASTM D7647	>10	---	▲ 1	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	---	▲ 25/24/17	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.37	0.32

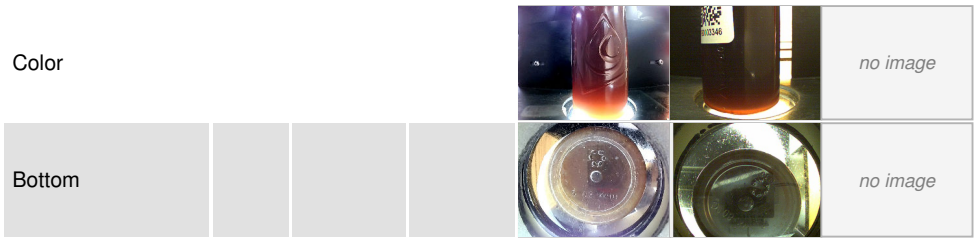
OIL ANALYSIS REPORT



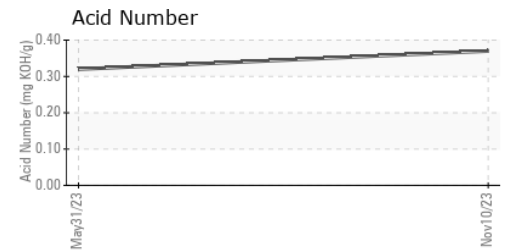
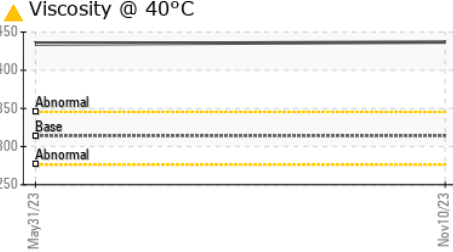
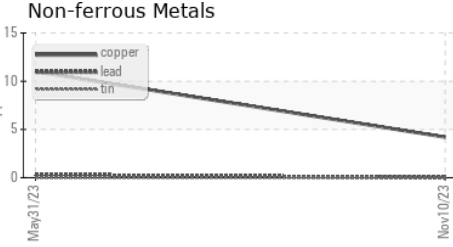
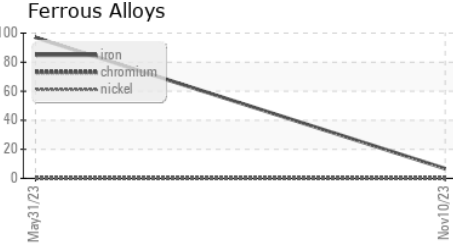
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	▲ HEAVY	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	▲ HAZY	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG
Free Water	scalar	*Visual		▲ 1.0	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 314	▲ 437	▲ 434.3	---

SAMPLE IMAGES



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0004816 **Received** : 14 Nov 2023
Lab Number : 06007671 **Diagnosed** : 06 Dec 2023
Unique Number : 10741433 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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)

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