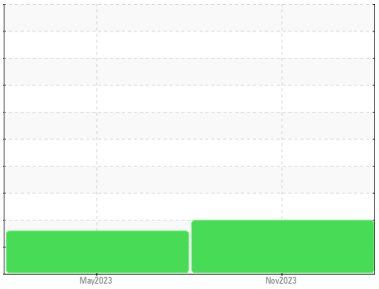
PROBLEM SUMMARY

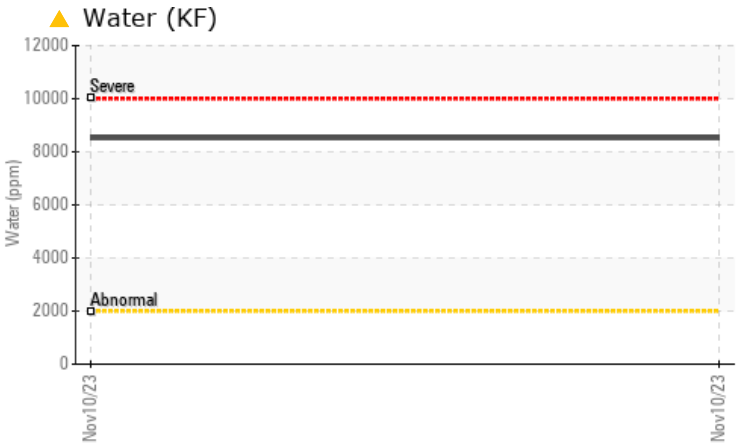
Sample Rating Trend

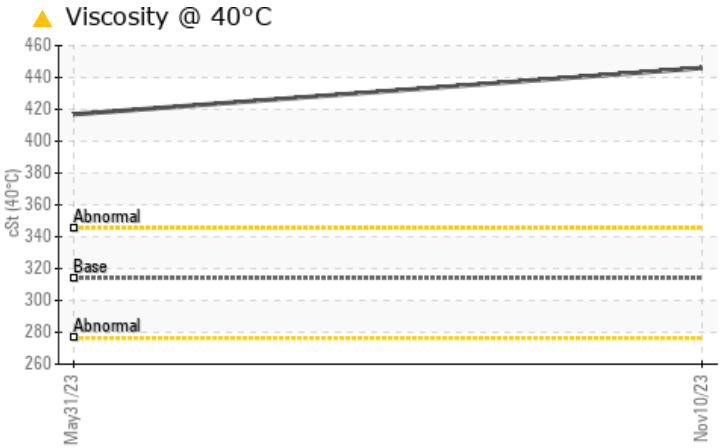


WATER

Area
HOTLINE/120 MILL
Machine Id
#2 PINCH ROLL REDUCER TOP 1415-004-0080 TOP
Component
Top Gearbox
Fluid
CITGO COMPOUND EP 320 (12 GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	---
Water	%	ASTM D6304	>0.2	▲ **0.852**	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ **8520**	---	---
Emulsified Water	scalar	*Visual	>0.2	▲ **0.2%**	NEG	---
Visc @ 40°C	cSt	ASTM D445	314	▲ **446**	▲ 416.9	---

Customer Id: CONMUSAL
Sample No.: KFS0004815
Lab Number: 06007672
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

31 May 2023 Diag: Jonathan Hester

VISCOSITY

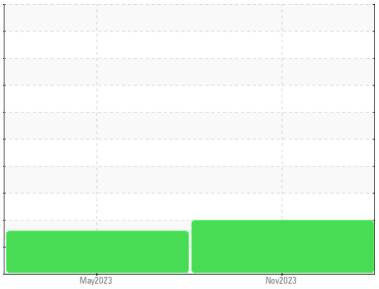
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

view report

KIMBRO FLUID SOLUTIONS

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
HOTLINE/120 MILL
Machine Id
#2 PINCH ROLL REDUCER TOP 1415-004-0080 TOP
Component
Top Gearbox
Fluid
CITGO COMPOUND EP 320 (12 GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

Wear
All component wear rates are normal.

Contamination
There is a moderate concentration of water present in the oil.

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		**KFS0004815**	KFS0003345	---
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	**19**	120	---
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**	0	---
Copper	ppm	ASTM D5185m	>200	**6**	<1	---
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**	<1	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	0	---
Manganese	ppm	ASTM D5185m		**<1**	1	---
Magnesium	ppm	ASTM D5185m		**2**	0	---
Calcium	ppm	ASTM D5185m		**7**	4	---
Phosphorus	ppm	ASTM D5185m		**115**	106	---
Zinc	ppm	ASTM D5185m		**9**	0	---
Sulfur	ppm	ASTM D5185m		**5237**	8280	---

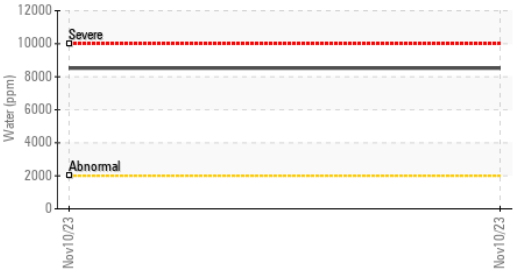
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**2**	2	---
Sodium	ppm	ASTM D5185m		**<1**	6	---
Potassium	ppm	ASTM D5185m	>20	**2**	<1	---
Water	%	ASTM D6304	>0.2	▲ **0.852**	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ **8520**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	**---**	▲ 241683	---
Particles >6µm		ASTM D7647	>5000	**---**	▲ 48959	---
Particles >14µm		ASTM D7647	>640	**---**	371	---
Particles >21µm		ASTM D7647	>160	**---**	94	---
Particles >38µm		ASTM D7647	>40	**---**	12	---
Particles >71µm		ASTM D7647	>10	**---**	2	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	**---**	▲ 25/23/16	---

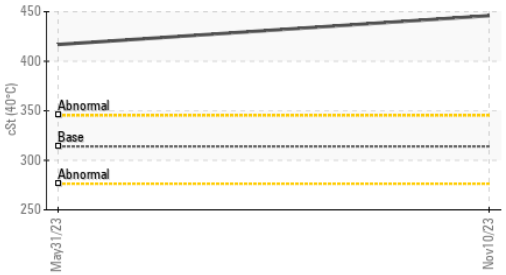
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.38**	0.25	---

OIL ANALYSIS REPORT

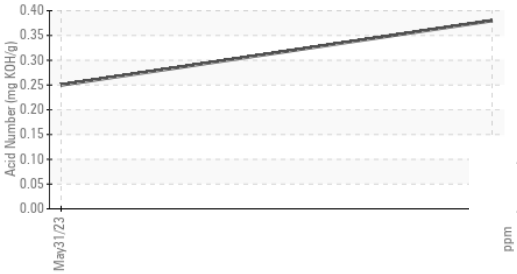
Water (KF)



Viscosity @ 40°C

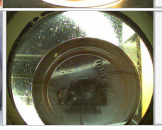


Acid Number



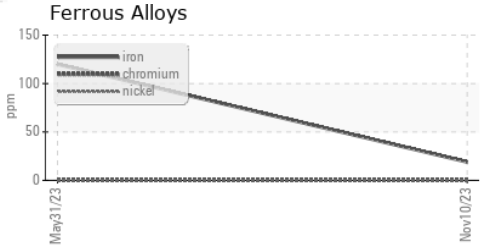
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	314	▲ **446**	▲ 416.9	---

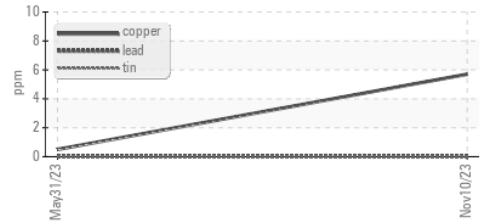
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

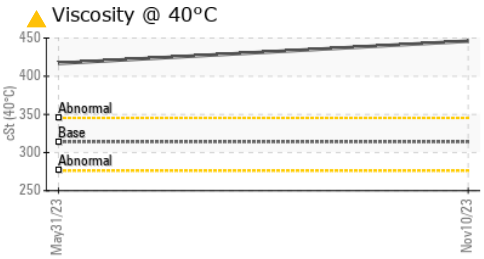
Ferrous Alloys



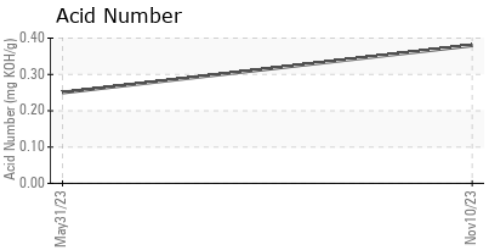
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0004815 **Received** : 14 Nov 2023
Lab Number : 06007672 **Diagnosed** : 16 Nov 2023
Unique Number : 10741434 **Diagnostician** : Don Baldridge
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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