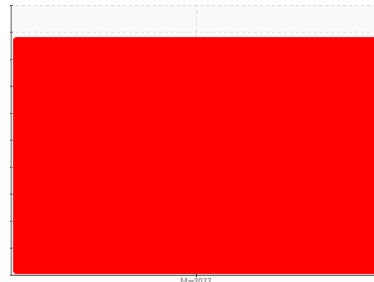




PROBLEM SUMMARY

Sample Rating Trend



WEAR



Area

HOTLINE/CRANES

Machine Id

99 EAST HOIST GEARBOX 1406-099-0630

Component

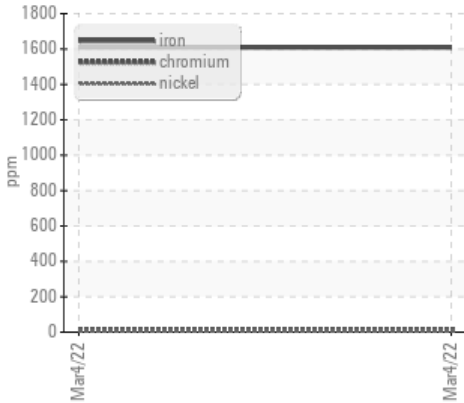
Gearbox

Fluid

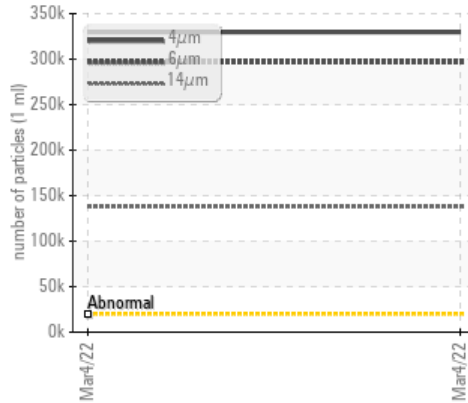
CITGO COMPOUND EP 320 (--- GAL)

COMPONENT CONDITION SUMMARY

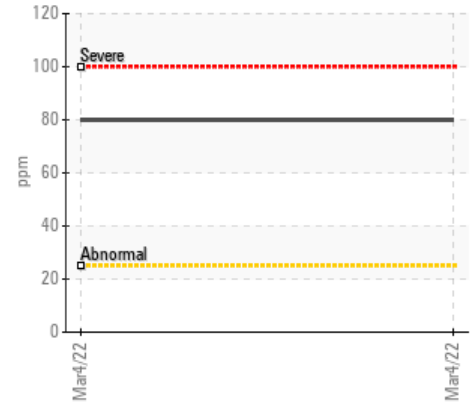
▲ Ferrous Alloys



▲ Particle Trend



▲ Aluminum (ppm)



RECOMMENDATION

We recommend you service the filters on this component if applicable. 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				SEVERE	---	---
Iron	ppm	ASTM D5185m	>200	▲ 1609	---	---
Aluminum	ppm	ASTM D5185m	>25	▲ 80	---	---
Particles >4µm		ASTM D7647	>20000	▲ 329677	---	---
Particles >6µm		ASTM D7647	>5000	▲ 296741	---	---
Particles >14µm		ASTM D7647	>640	▲ 137837	---	---
Particles >21µm		ASTM D7647	>160	▲ 34876	---	---
Particles >38µm		ASTM D7647	>40	▲ 459	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 26/25/24	---	---

Customer Id: CONMUSAL
Sample No.: KFS0000141
Lab Number: 05487794
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

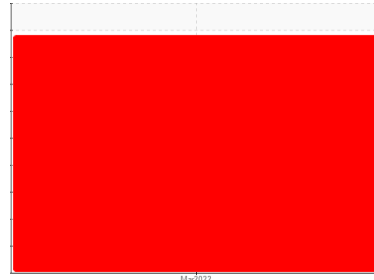
Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

HOTLINE/CRANES

Machine Id

99 EAST HOIST GEARBOX 1406-099-0630

Component

Gearbox

Fluid

CITGO COMPOUND EP 320 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Gear wear is indicated.

▲ Contamination

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

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KFS0000141	---	---
Sample Date	Client Info		04 Mar 2022	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	▲ 1609	---
Chromium	ppm	ASTM D5185m	>15	14	---
Nickel	ppm	ASTM D5185m	>15	5	---
Titanium	ppm	ASTM D5185m		<1	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>25	▲ 80	---
Lead	ppm	ASTM D5185m	>100	<1	---
Copper	ppm	ASTM D5185m	>200	6	---
Tin	ppm	ASTM D5185m	>25	0	---
Antimony	ppm	ASTM D5185m		1	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		16	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		4	---
Manganese	ppm	ASTM D5185m		16	---
Magnesium	ppm	ASTM D5185m		6	---
Calcium	ppm	ASTM D5185m		191	---
Phosphorus	ppm	ASTM D5185m		287	---
Zinc	ppm	ASTM D5185m		92	---
Sulfur	ppm	ASTM D5185m		3843	---

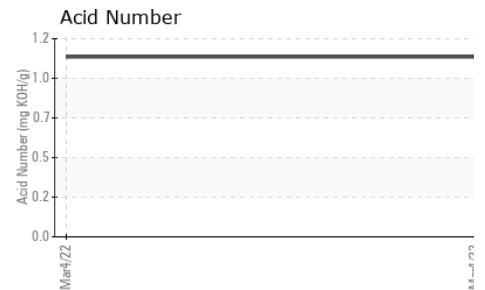
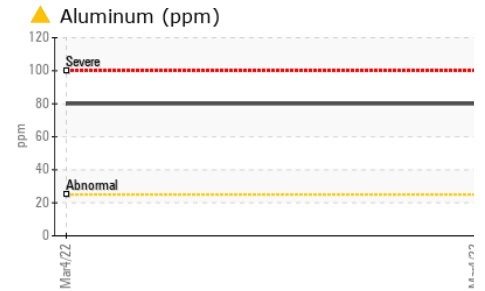
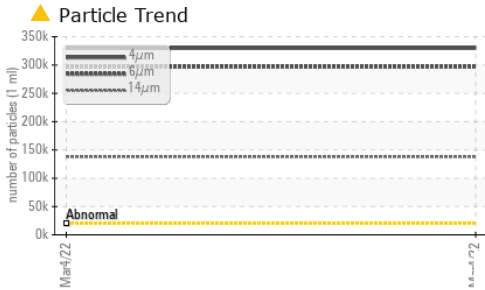
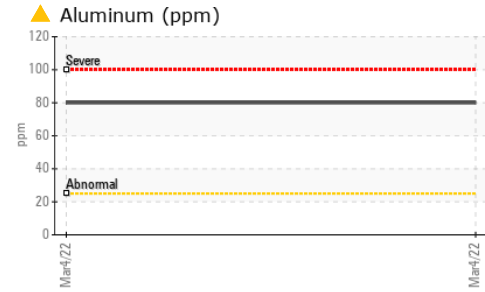
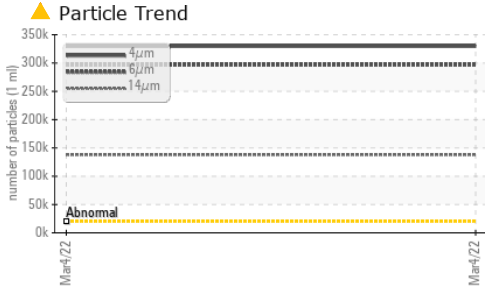
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	14	---
Sodium	ppm	ASTM D5185m		5	---
Potassium	ppm	ASTM D5185m	>20	4	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 329677	---	---
Particles >6µm	ASTM D7647	>5000	▲ 296741	---	---
Particles >14µm	ASTM D7647	>640	▲ 137837	---	---
Particles >21µm	ASTM D7647	>160	▲ 34876	---	---
Particles >38µm	ASTM D7647	>40	▲ 459	---	---
Particles >71µm	ASTM D7647	>10	3	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 26/25/24	---	---

OIL ANALYSIS REPORT



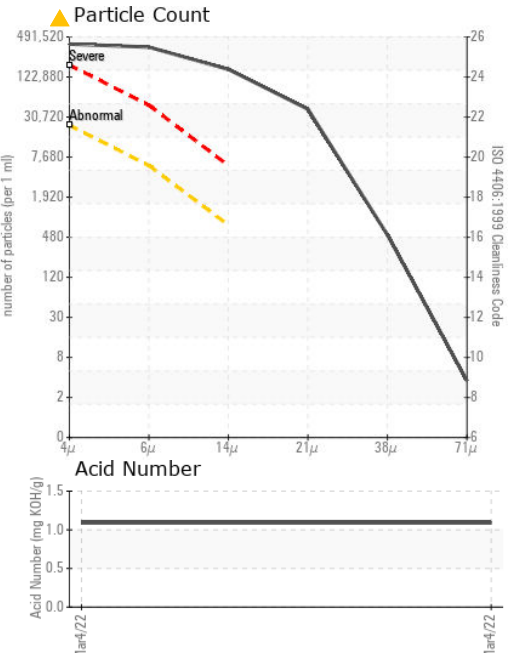
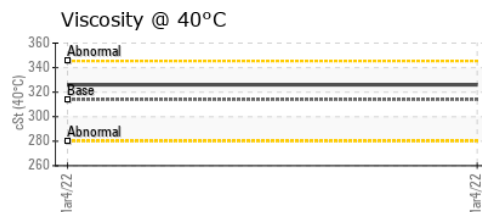
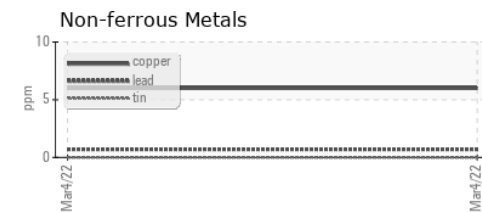
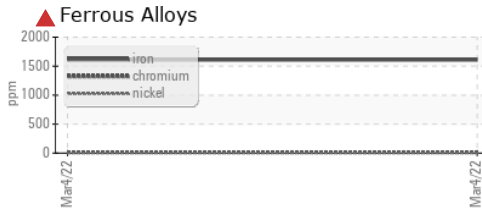
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.09	---	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	314	326	---	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : KFS0000141

Lab Number : 05487794

Unique Number : 9882013

Test Package : IND 2 (Additional Tests: PrtCount)

Received : 09 Mar 2022

Tested : 14 Mar 2022

Diagnosed : 14 Mar 2022 - Doug Bogart

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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