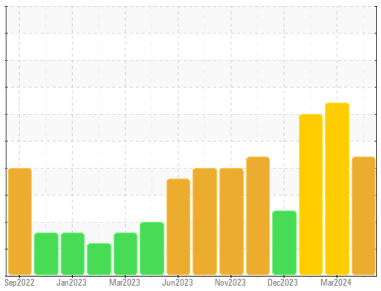
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
HOTLINE/120 MILL
Machine Id
120 MAIN DRIVE PINION 1415-014-1190
Component
Gearbox
Fluid
CITGO EP COMPOUND ISO 800 (5000 GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Appearance is hazy. There is a moderate amount of particulates present in the oil. There is a light concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KFS0004858**	KFS0002560	KFS0004626
Sample Date		Client Info		**02 Apr 2024**	22 Mar 2024	16 Feb 2024
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**34**	30	51
Chromium	ppm	ASTM D5185m	>15	**0**	<1	0
Nickel	ppm	ASTM D5185m	>15	**<1**	<1	1
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**<1**	<1	0
Aluminum	ppm	ASTM D5185m	>25	**3**	3	3
Lead	ppm	ASTM D5185m	>100	**15**	14	28
Copper	ppm	ASTM D5185m	>200	**<1**	2	0
Tin	ppm	ASTM D5185m	>25	**1**	2	3
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	2	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**1**	<1	3
Barium	ppm	ASTM D5185m		**<1**	0	1
Molybdenum	ppm	ASTM D5185m		**0**	<1	0
Manganese	ppm	ASTM D5185m		**<1**	<1	0
Magnesium	ppm	ASTM D5185m		**4**	2	6
Calcium	ppm	ASTM D5185m		**17**	17	23
Phosphorus	ppm	ASTM D5185m		**144**	141	106
Zinc	ppm	ASTM D5185m		**5**	15	15
Sulfur	ppm	ASTM D5185m		**6797**	5725	4888

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**1**	3	1
Sodium	ppm	ASTM D5185m		**6**	5	4
Potassium	ppm	ASTM D5185m	>20	**3**	2	3
Water	%	ASTM D6304	>0.2	▲ **0.209**	▲ 1.08	▲ 9.72
ppm Water	ppm	ASTM D6304	>2000	▲ **2090**	▲ 10800	▲ 97200

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	**9630**	▲ 20409	13911
Particles >6µm		ASTM D7647	>5000	● **5246**	▲ 11118	● 7578
Particles >14µm		ASTM D7647	>640	● **893**	▲ 1892	● 1290
Particles >21µm		ASTM D7647	>160	● **301**	▲ 637	● 434
Particles >38µm		ASTM D7647	>40	● **46**	▲ 98	● 67
Particles >71µm		ASTM D7647	>10	**5**	10	7
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● **20/20/17**	▲ 22/21/18	● 21/20/17

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.44**	0.52	0.45

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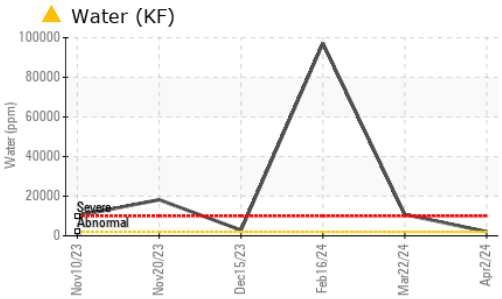
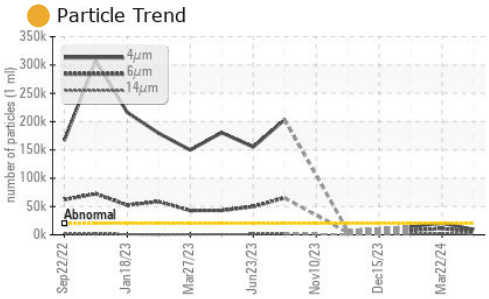
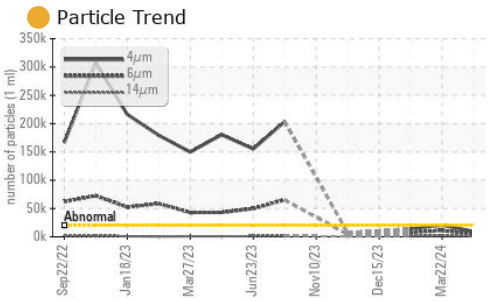
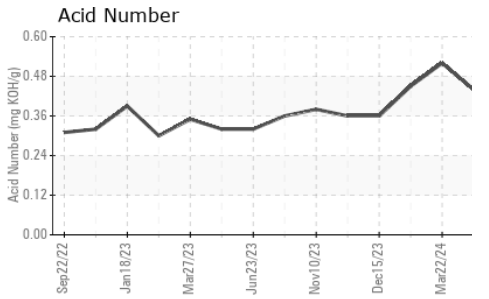
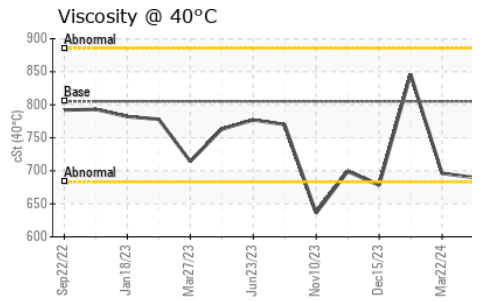








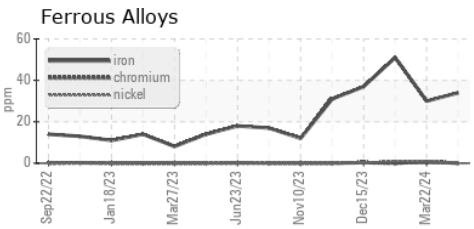


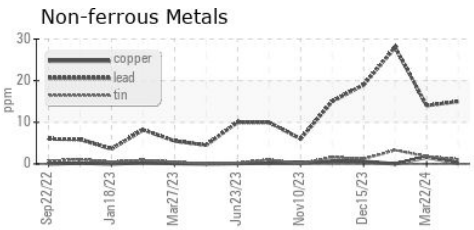
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	MODER	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

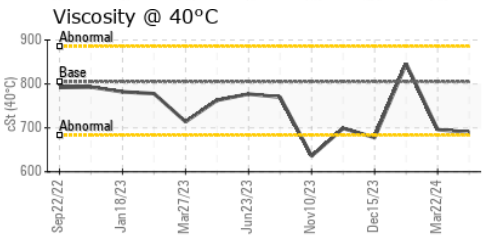
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	805	**690**	696	846

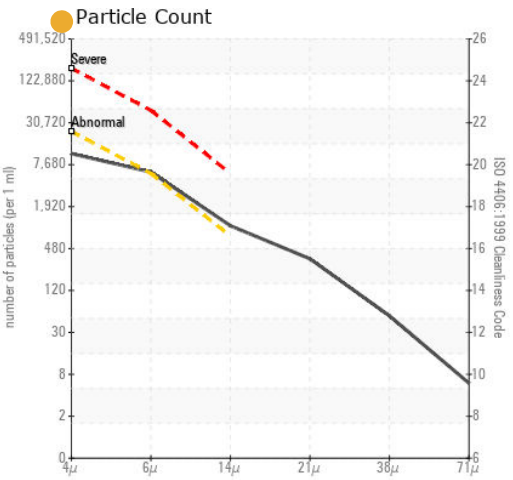
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

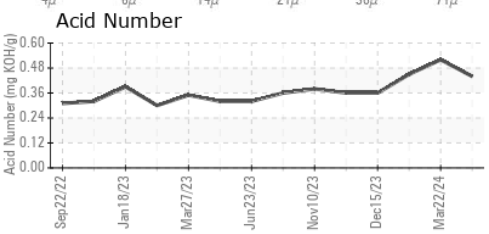
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0004858 **Received** : 14 May 2024
Lab Number : 06179311 **Tested** : 20 May 2024
Unique Number : 11030637 **Diagnosed** : 20 May 2024 - Jonathan Hester
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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Report Id: CONMUSAL [WUSCAR] 06179311 (Generated: 05/20/2024 15:32:19) Rev: 1

Submitted By: COLD MILL - Josh Edwards