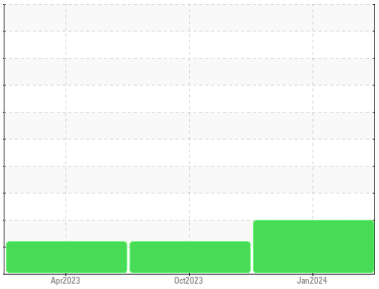
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
FABRICATION
Machine Id
ELECTRA GEAR TAKE AWAY BELT
Component
Gearbox
Fluid
GEAR OIL (PAG) ISO 220 (--- GAL)

DIAGNOSIS

▲ Recommendation
Resample at the next service interval to monitor.

▲ Wear
An increase in the iron level is noted. All component wear rates are normal.

▲ Contamination
There is a high amount of silt (particulates < 14 microns in size) 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		**USP0004884**	USP0002843	USP249225
Sample Date		Client Info		**10 Jan 2024**	12 Oct 2023	19 Apr 2023
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**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	▲ **128**	9	4
Chromium	ppm	ASTM D5185m	>15	**0**	0	0
Nickel	ppm	ASTM D5185m	>15	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**1**	<1	<1
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>200	**4**	<1	1
Tin	ppm	ASTM D5185m	>25	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	**0**	0	0
Barium	ppm	ASTM D5185m	5	**3**	<1	0
Molybdenum	ppm	ASTM D5185m	5	**0**	0	0
Manganese	ppm	ASTM D5185m		**2**	<1	<1
Magnesium	ppm	ASTM D5185m	5	**10**	2	5
Calcium	ppm	ASTM D5185m	5	**5**	<1	0
Phosphorus	ppm	ASTM D5185m	775	**406**	386	398
Zinc	ppm	ASTM D5185m	5	**0**	2	0
Sulfur	ppm	ASTM D5185m	2000	**925**	840	808

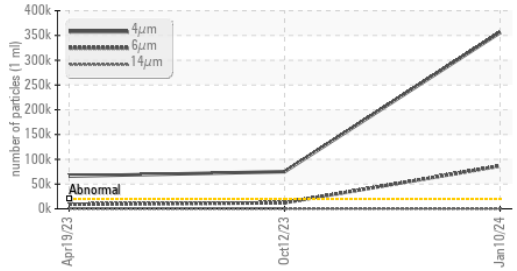
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**6**	2	2
Sodium	ppm	ASTM D5185m		**0**	<1	0
Potassium	ppm	ASTM D5185m	>20	**0**	2	0
Water	%	ASTM D6304	>0.2	**0.016**	0.003	0.006
ppm Water	ppm	ASTM D6304	>2000	**167**	27.2	67.3

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ **355944**	▲ 75004	▲ 66020
Particles >6µm		ASTM D7647	>5000	▲ **86361**	▲ 12138	▲ 9127
Particles >14µm		ASTM D7647	>640	**200**	389	327
Particles >21µm		ASTM D7647	>160	**33**	83	73
Particles >38µm		ASTM D7647	>40	**0**	5	2
Particles >71µm		ASTM D7647	>10	**0**	2	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **26/24/15**	▲ 23/21/16	▲ 23/20/16

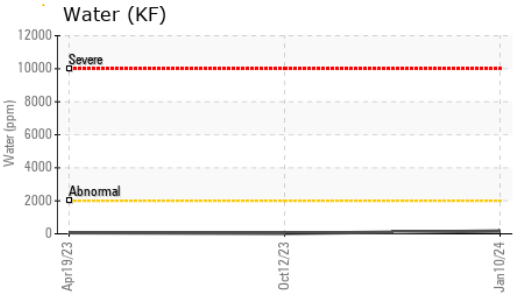
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	**0.34**	0.44	0.49

OIL ANALYSIS REPORT

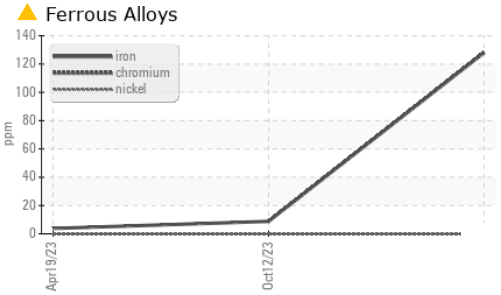
Particle Trend



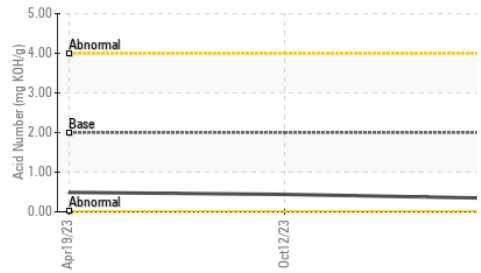
Water (KF)



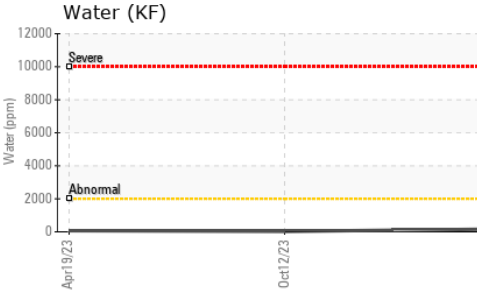
Ferrous Alloys



Acid Number



Water (KF)



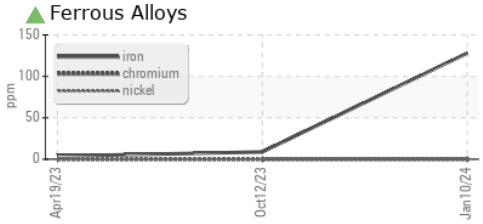
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	**221**	220	221

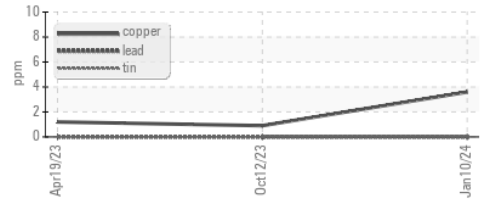
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

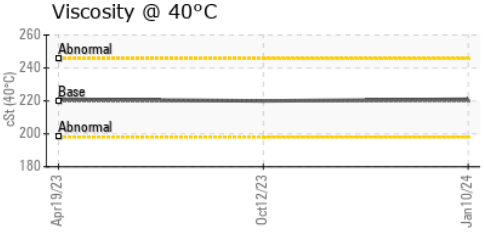
Ferrous Alloys



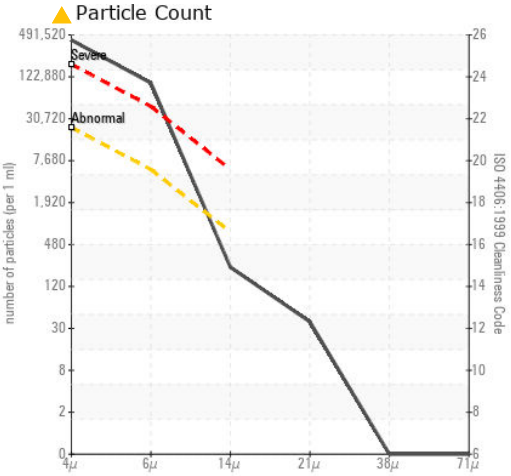
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0004884 **Recieved** : 19 Jan 2024
Lab Number : 06065660 **Diagnosed** : 22 Jan 2024
Unique Number : 10837042 **Diagnostician** : Doug Bogart
Test Package : IND 2

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)

TYSON - SMART CHICKEN MBA
13151 DOVER ST
WAVERLY, NE
US 68462
Contact: KURT CONRADT
kconradt@smartchicken.com
T: (402)786-1072
F: