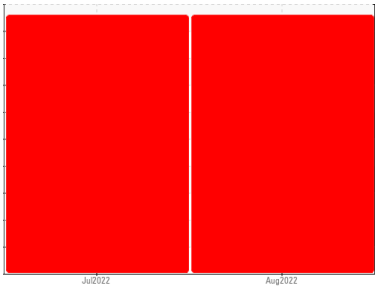
PROBLEM SUMMARY

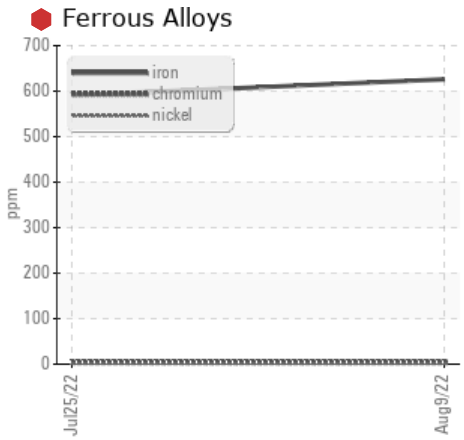
Sample Rating Trend

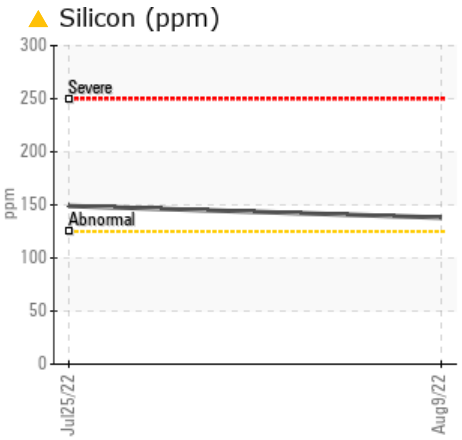


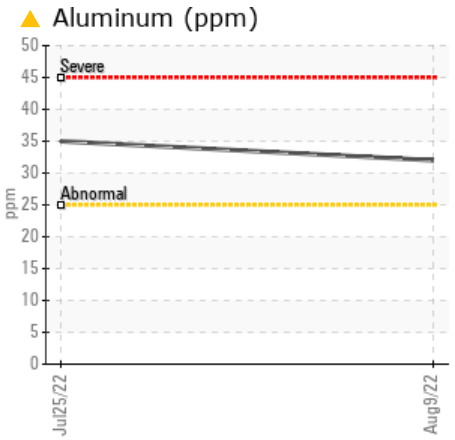
WEAR

Machine Id
228082-21
Component
Front Transmission (Manual)
Fluid
NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The fluid change at the time of sampling has been noted. 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**	SEVERE	---
Iron	ppm	ASTM D5185m	>200	**626**	591	---
Aluminum	ppm	ASTM D5185m	>25	**32**	35	---
Silicon	ppm	ASTM D5185m	>125	**138**	149	---
White Metal	scalar	*Visual	NONE	**MODER**	MODER	---

Customer Id: GFL166
Sample No.: GFL0047822
Lab Number: 05622750
Test Package: FLEET

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.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

25 Jul 2022 Diag: Jonathan Hester

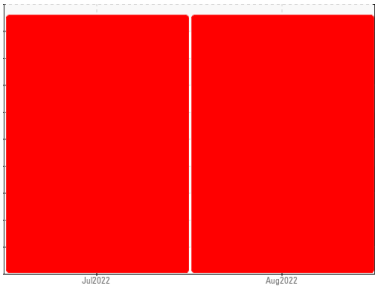
WEAR

We advise that you check all areas where dirt can enter the system. We recommend that you drain the fluid from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Moderate concentration of visible metal present. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
228082-21
Component
Front Transmission (Manual)
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. The fluid change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear
Moderate concentration of visible metal present. Gear wear is indicated.

Contamination
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition
The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0047822**	GFL0047761	---
Sample Date		Client Info		**09 Aug 2022**	25 Jul 2022	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**600**	0	---
Oil Changed		Client Info		**Changed**	Not Changd	---
Sample Status				**SEVERE**	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**626**	591	---
Chromium	ppm	ASTM D5185m	>5	**5**	5	---
Nickel	ppm	ASTM D5185m	>5	**<1**	1	---
Titanium	ppm	ASTM D5185m		**2**	2	---
Silver	ppm	ASTM D5185m	>7	**0**	<1	---
Aluminum	ppm	ASTM D5185m	>25	**32**	35	---
Lead	ppm	ASTM D5185m	>45	**0**	<1	---
Copper	ppm	ASTM D5185m	>225	**17**	16	---
Tin	ppm	ASTM D5185m	>10	**<1**	1	---
Vanadium	ppm	ASTM D5185m		**0**	<1	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**312**	289	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**2**	<1	---
Manganese	ppm	ASTM D5185m		**8**	8	---
Magnesium	ppm	ASTM D5185m		**20**	6	---
Calcium	ppm	ASTM D5185m		**115**	102	---
Phosphorus	ppm	ASTM D5185m		**1031**	1087	---
Zinc	ppm	ASTM D5185m		**42**	22	---
Sulfur	ppm	ASTM D5185m		**1433**	1442	---

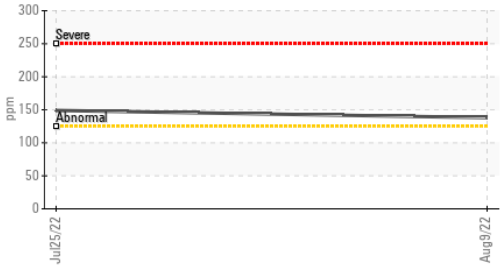
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	**138**	149	---
Sodium	ppm	ASTM D5185m		**6**	9	---
Potassium	ppm	ASTM D5185m	>20	**2**	5	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**MODER**	MODER	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

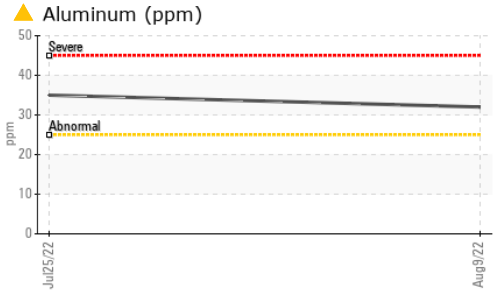
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**127.1**	127	---

OIL ANALYSIS REPORT

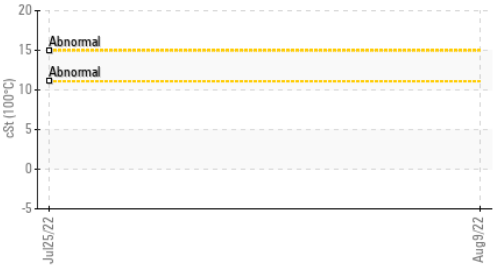
Silicon (ppm)



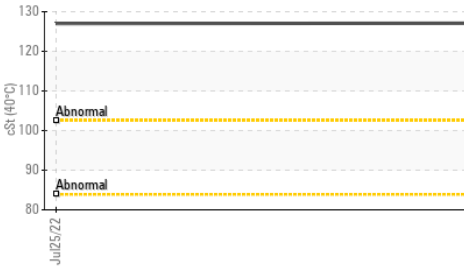
Aluminum (ppm)



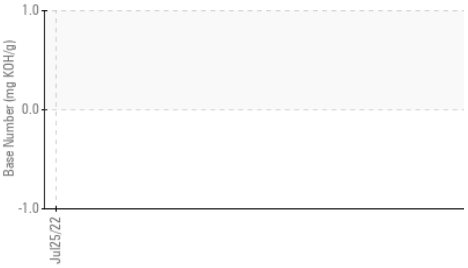
Viscosity @ 100°C



Viscosity @ 40°C



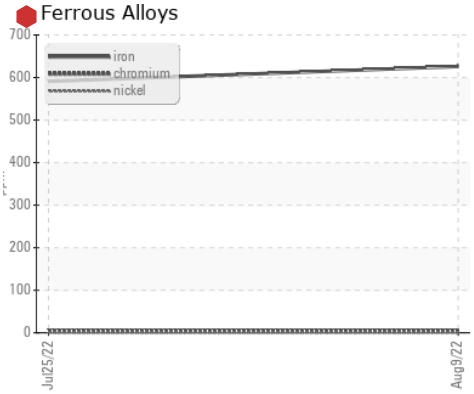
Base Number



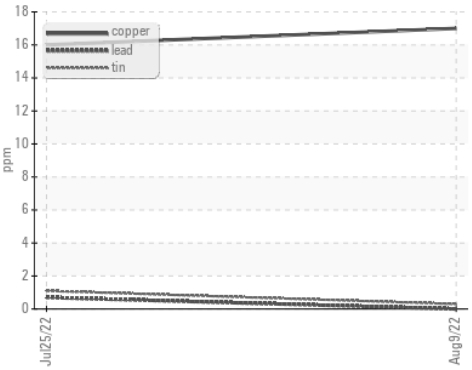
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

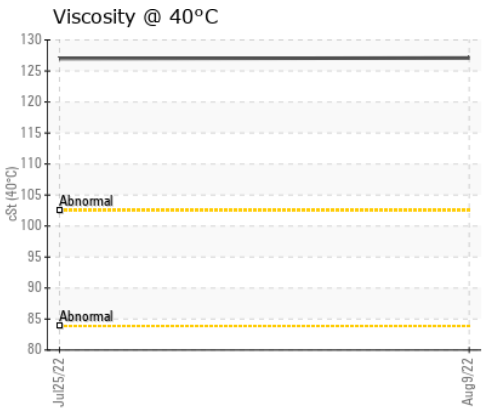
Ferrous Alloys



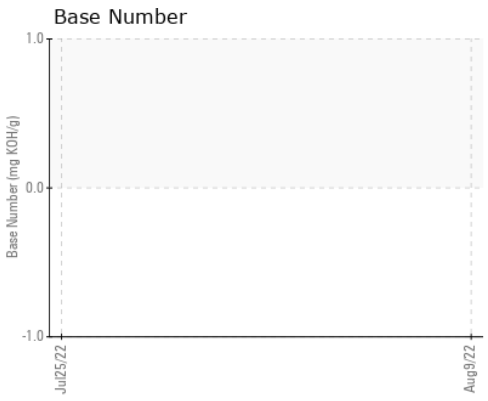
Non-ferrous Metals



Viscosity @ 40°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0047822 **Received** : 22 Aug 2022
Lab Number : 05622750 **Diagnosed** : 25 Aug 2022
Unique Number : 10102257 **Diagnostician** : Doug Bogart
Test Package : FLEET (Additional Tests: FT-IR, KV100, TBN)

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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