

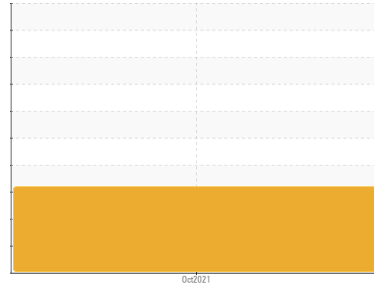
PROBLEM SUMMARY

Sample Rating Trend

WATER

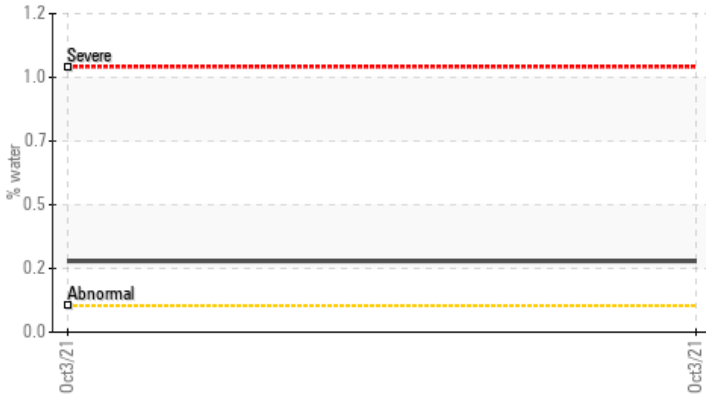


Machine Id
FRICK FRICK A
 Component
Screw Compressor
 Fluid
ISO 100 (--- GAL)

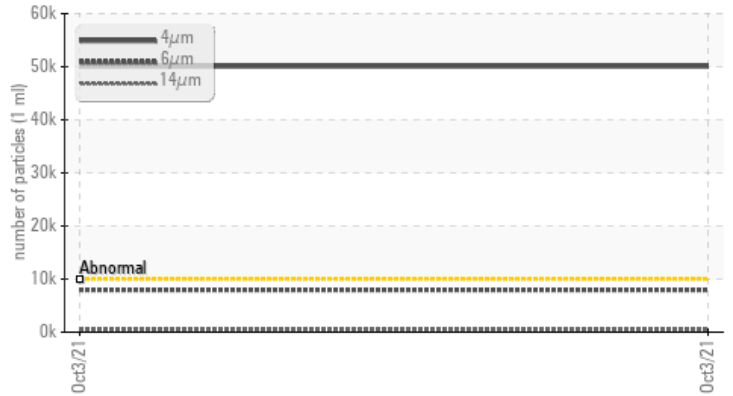


COMPONENT CONDITION SUMMARY

▲ Water



▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Water	%	ASTM D6304	>0.1	▲ 0.268	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 2681.6	---	---
Particles >4µm		ASTM D7647	>10000	▲ 50068	---	---
Particles >6µm		ASTM D7647	>2500	▲ 7959	---	---
Particles >14µm		ASTM D7647	>320	▲ 443	---	---
Particles >21µm		ASTM D7647	>80	▲ 109	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 23/20/16	---	---

Customer Id: GARROW
 Sample No.: TO50000451
 Lab Number: 05364920
 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
Change Filter	MISSED	May 05 2022	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Machine Id
FRICK FRICK A
 Component
Screw Compressor
 Fluid
ISO 100 (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high 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	TO50000451	---	---
Sample Date	Client Info	03 Oct 2021	---	---
Machine Age	hrs	0	---	---
Oil Age	hrs	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >60	<1	---	---
Chromium ppm	ASTM D5185m >4	0	---	---
Nickel ppm	ASTM D5185m	<1	---	---
Titanium ppm	ASTM D5185m	0	---	---
Silver ppm	ASTM D5185m	1	---	---
Aluminum ppm	ASTM D5185m >5	<1	---	---
Lead ppm	ASTM D5185m >10	<1	---	---
Copper ppm	ASTM D5185m >30	<1	---	---
Tin ppm	ASTM D5185m >15	<1	---	---
Antimony ppm	ASTM D5185m	<1	---	---
Vanadium ppm	ASTM D5185m	<1	---	---
Cadmium ppm	ASTM D5185m	<1	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	1	---	---
Barium ppm	ASTM D5185m	0	---	---
Molybdenum ppm	ASTM D5185m	0	---	---
Manganese ppm	ASTM D5185m	<1	---	---
Magnesium ppm	ASTM D5185m	<1	---	---
Calcium ppm	ASTM D5185m	5	---	---
Phosphorus ppm	ASTM D5185m	9	---	---
Zinc ppm	ASTM D5185m	1	---	---
Sulfur ppm	ASTM D5185m	326	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >50	17	---	---
Sodium ppm	ASTM D5185m	1	---	---
Potassium ppm	ASTM D5185m >20	<1	---	---
Water %	ASTM D6304 >0.1	▲ 0.268	---	---
ppm Water	ASTM D6304 >1000	▲ 2681.6	---	---

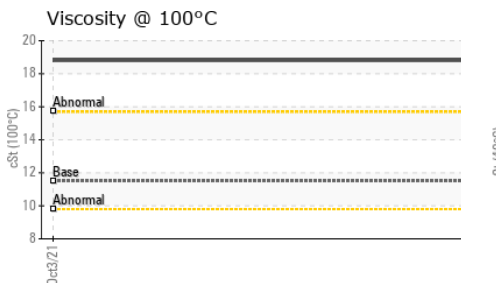
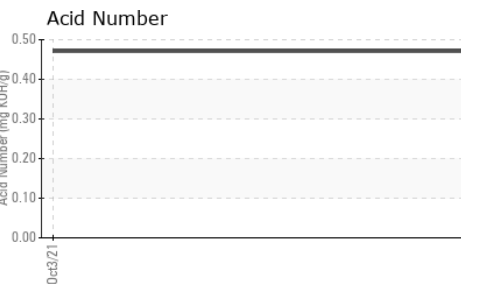
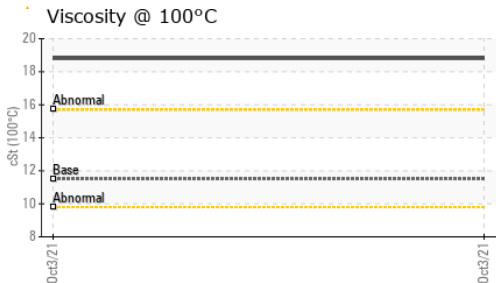
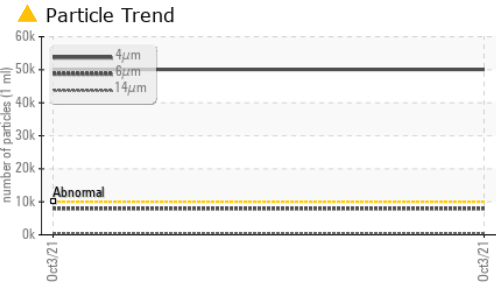
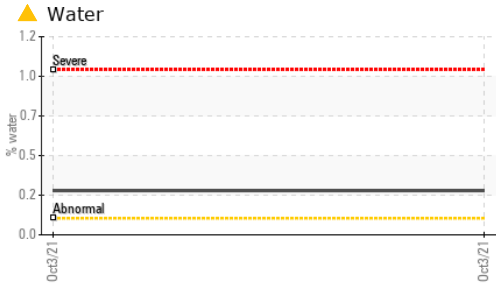
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 50068	---	---
Particles >6µm	ASTM D7647 >2500	▲ 7959	---	---
Particles >14µm	ASTM D7647 >320	▲ 443	---	---
Particles >21µm	ASTM D7647 >80	▲ 109	---	---
Particles >38µm	ASTM D7647 >20	2	---	---
Particles >71µm	ASTM D7647 >4	0	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/15	▲ 23/20/16	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.471	---	---

OIL ANALYSIS REPORT



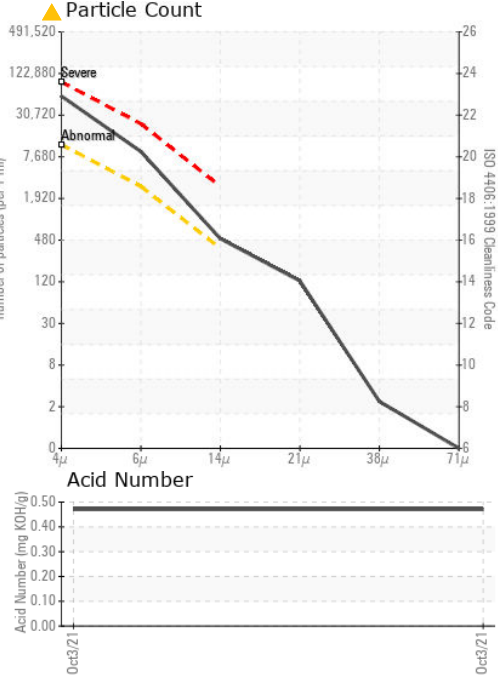
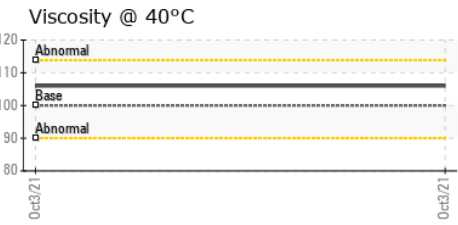
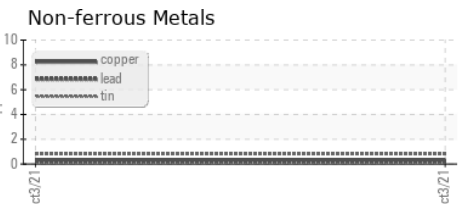
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	100	106	---	---
Visc @ 100°C	cSt	ASTM D445	11.5	18.81	---	---
Viscosity Index (VI)	Scale	ASTM D2270	102	198	---	---

SAMPLE IMAGES

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50000451 **Received** : 04 Oct 2021
Lab Number : 05364920 **Diagnosed** : 07 Oct 2021
Unique Number : 9684026 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

GARLAND RENEWABLES
 3175 ELM GROVE RD
 ROWLETT, TX
 US 75089
 Contact: DUSTIN FRY
 dustin@morrowrenew.com

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)