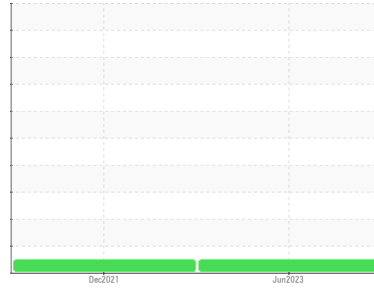


# PROBLEM SUMMARY

Sample Rating Trend



**WEAR**



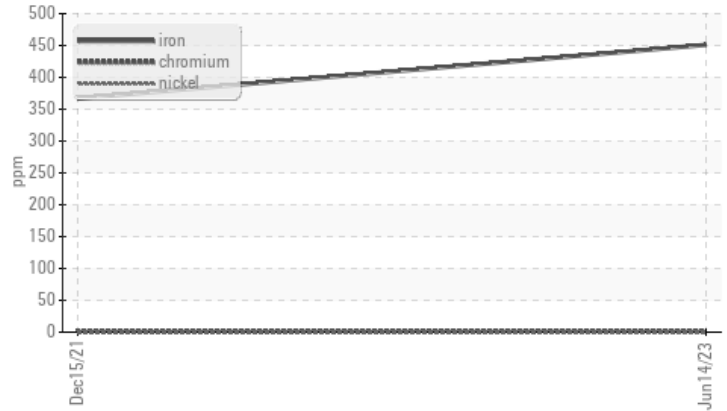
Machine Id  
**8-6-4**  
Component  
**Heat Transfer Fluid**  
Fluid  
**EASTMAN THERMINOL 55 (--- GAL)**

## COMPONENT CONDITION SUMMARY

Viscosity @ 40°C



Ferrous Alloys



## RECOMMENDATION

Recommend drain fluid if not already done and flush with cleaner before refilling with fluid. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	---
Iron	ppm	ASTM D5185m	>200	▲ <b>451</b>	▲ 367	---
Silt	scalar	*Visual	NONE	▲ <b>HEAVY</b>	▲ HEAVY	---
Visc @ 40°C	cSt	ASTM D445	19	● <b>2976</b>	83.0	---

Customer Id: BLUGLO  
Sample No.: TO10002033  
Lab Number: 05881508  
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](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Recommend drain fluid if not already done and flush with cleaner before refilling with fluid.
Flush System	---	---	?	Recommend drain fluid if not already done and flush with cleaner before refilling with fluid.

## HISTORICAL DIAGNOSIS

### 15 Dec 2021 Diag: Doug Bogart

#### WEAR



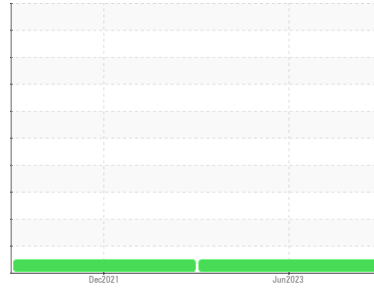
We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. Please note that this is a corrected copy for diagnostic comment updates. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is abnormal. There is a high amount of visible silt present in the sample. The AN level is acceptable for this fluid.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**8-6-4**  
 Component  
**Heat Transfer Fluid**  
 Fluid  
**EASTMAN THERMINOL 55 (--- GAL)**

## DIAGNOSIS

**Recommendation**  
 Recommend drain fluid if not already done and flush with cleaner before refilling with fluid. Resample at the next service interval to monitor.

**Wear**  
 The iron level is abnormal.

**Contamination**  
 Appearance is unacceptable. There is a high amount of visible sediment/sludge present in the sample.

**Fluid Condition**  
 The fluid viscosity is higher than normal. The fluid is no longer serviceable.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>TO10002033</b>	TO10000667	---
Sample Date	Client Info		<b>14 Jun 2023</b>	15 Dec 2021	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>SEVERE</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>▲ 451</b>	▲ 367	---
Chromium	ppm	ASTM D5185m >21	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m >21	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m >21	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >21	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >21	<b>1</b>	<1	---
Lead	ppm	ASTM D5185m >21	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >21	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m >21	<b>2</b>	<1	---
Antimony	ppm	ASTM D5185m >21	<b>---</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	<1	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>2</b>	0	---
Manganese	ppm	ASTM D5185m	<b>4</b>	3	---
Magnesium	ppm	ASTM D5185m	<b>0</b>	0	---
Calcium	ppm	ASTM D5185m	<b>4</b>	3	---
Phosphorus	ppm	ASTM D5185m	<b>15</b>	4	---
Zinc	ppm	ASTM D5185m	<b>0</b>	0	---
Sulfur	ppm	ASTM D5185m	<b>588</b>	71	---

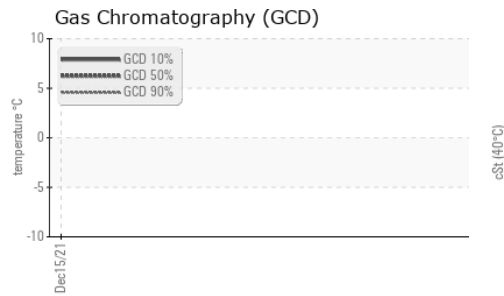
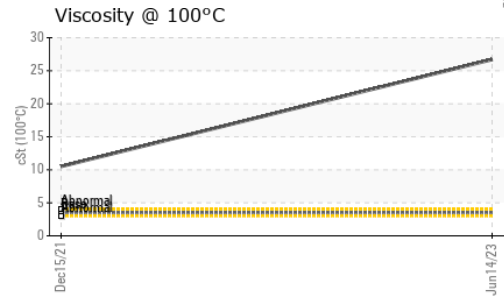
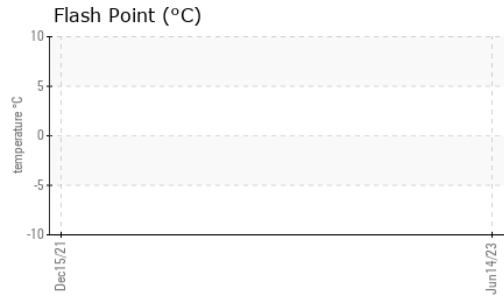
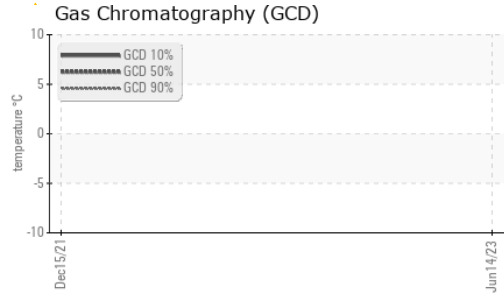
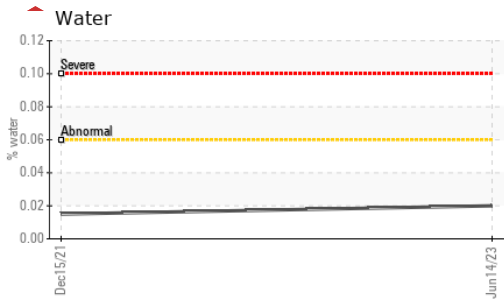
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>1</b>	<1	---
Sodium	ppm	ASTM D5185m >21	<b>20</b>	18	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	---
Water	%	ASTM D6304 >0.0601	<b>0.020</b>	0.015	---
ppm Water	ppm	ASTM D6304 >601	<b>202.2</b>	153.0	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.63</b>	0.240	---

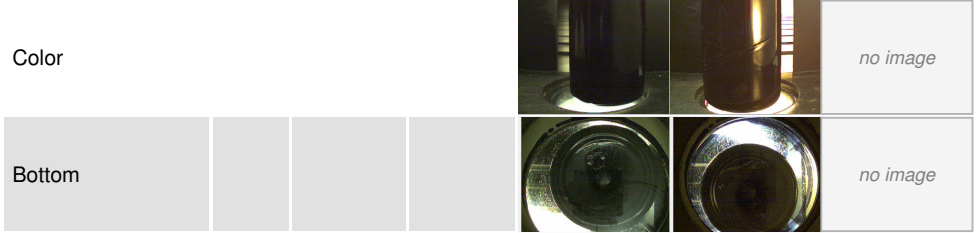
# OIL ANALYSIS REPORT



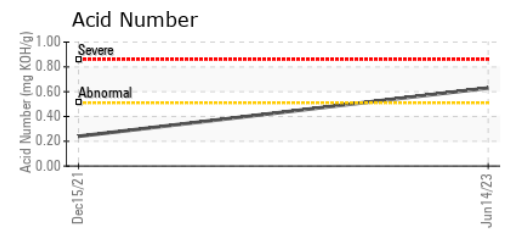
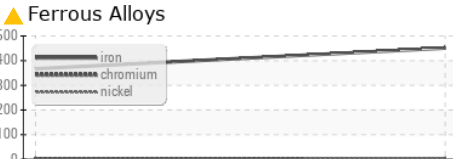
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	▲ HEAVY	▲ HEAVY
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.0601	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	19	◆ 2976	83.0
Visc @ 100°C	cSt	ASTM D445	3.5	26.7	10.5
Viscosity Index (VI)	Scale	ASTM D2270	24	---	109

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10002033 **Received** : 22 Jun 2023  
**Lab Number** : 05881508 **Diagnosed** : 29 Jun 2023  
**Unique Number** : 10526611 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: COC Flash, GCD, KF, KV100, PntInsol, PrtCount, VI )

**ERGON - GLOUCESTER CITY**  
 201 WATER ST  
 GLOUCESTER CITY, NJ  
 US 08030  
 Contact: KEVIN HANSON  
 Kevin.Hanson@ergon.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)