OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL

Machine Id
POC
Component
Heat Transfer Fluid
Fluid
ROYAL 650 (--- GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear
Moderate concentration of visible metal present. All component wear rates are normal.

Contamination
Moderate concentration of visible dirt/debris present in the fluid.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		**TO10000605**	---	---
Sample Date	Client Info		**29 Dec 2021**	---	---
Machine Age	Client Info		**5**	---	---
Oil Age	Client Info		**0**	---	---
Oil Changed	Client Info		**N/A**	---	---
Sample Status			**ABNORMAL**	---	---

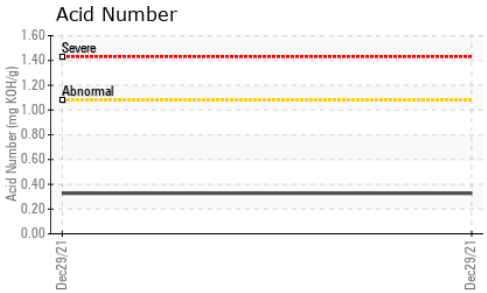
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**44**	---	---
Chromium	ppm	ASTM D5185m	>21	**0**	---	---
Nickel	ppm	ASTM D5185m	>21	**0**	---	---
Titanium	ppm	ASTM D5185m	>21	**0**	---	---
Silver	ppm	ASTM D5185m	>21	**0**	---	---
Aluminum	ppm	ASTM D5185m	>21	**2**	---	---
Lead	ppm	ASTM D5185m	>21	**0**	---	---
Copper	ppm	ASTM D5185m	>21	**1**	---	---
Tin	ppm	ASTM D5185m	>21	**0**	---	---
Antimony	ppm	ASTM D5185m	>21	**0**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

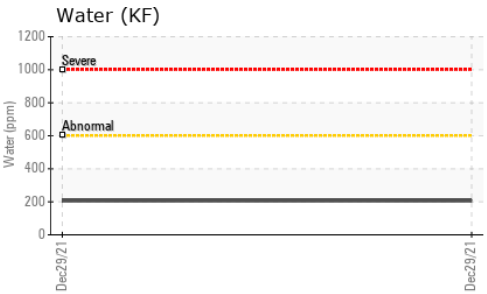
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**<1**	---	---
Manganese	ppm	ASTM D5185m		**<1**	---	---
Magnesium	ppm	ASTM D5185m		**0**	---	---
Calcium	ppm	ASTM D5185m		**214**	---	---
Phosphorus	ppm	ASTM D5185m		**3**	---	---
Zinc	ppm	ASTM D5185m		**3**	---	---
Sulfur	ppm	ASTM D5185m		**614**	---	---

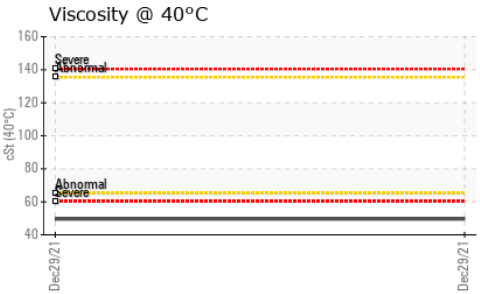
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**2**	---	---
Sodium	ppm	ASTM D5185m	>21	**250**	---	---
Potassium	ppm	ASTM D5185m	>20	**0**	---	---
Water	%	ASTM D6304	>0.0601	**0.020**	---	---
ppm Water	ppm	ASTM D6304	>601	**206.0**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.327**	---	---

OIL ANALYSIS REPORT

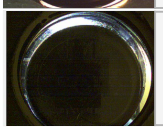




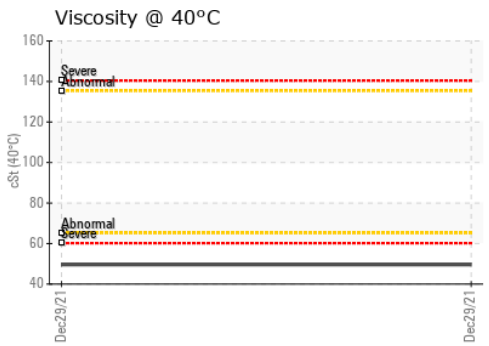


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ **MODER**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	▲ **MODER**	---	---
Sand/Dirt	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		**49.6**	---	---
Visc @ 100°C	cSt	ASTM D445		**7.5**	---	---
Viscosity Index (VI)	Scale	ASTM D2270		**114**	---	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10000605 **Received** : 06 Jan 2022
Lab Number : 05438042 **Tested** : 07 Jan 2022
Unique Number : 9802235 **Diagnosed** : 07 Jan 2022 - Doug Bogart
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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)

ERGON - CATOOSA
5645 E CHANNEL RD
CATOOSA, OK
US 74015
Contact: BRIAN MORGAN
Brian.Morgan@ergon.com
T:
F: