

OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL



Machine Id

PORT 33

Component

Heat Transfer Fluid

Fluid

ROYAL 650 THERMAL OIL (--- 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

Light 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		TO10000606	---	---
Sample Date	Client Info		30 Dec 2021	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	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	17	---
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	0	---
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		0	---
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		0	---
Manganese	ppm	ASTM D5185m		<1	---
Magnesium	ppm	ASTM D5185m		0	---
Calcium	ppm	ASTM D5185m		3	---
Phosphorus	ppm	ASTM D5185m		0	---
Zinc	ppm	ASTM D5185m		0	---
Sulfur	ppm	ASTM D5185m		214	---

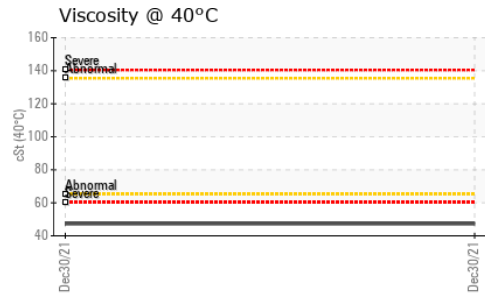
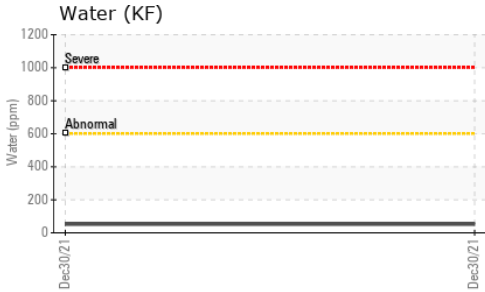
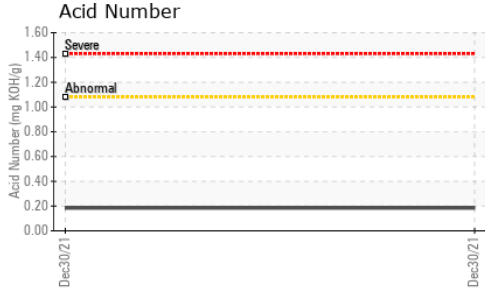
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	---
Sodium	ppm	ASTM D5185m	>21	10	---
Potassium	ppm	ASTM D5185m	>20	0	---
Water	%	ASTM D6304	>0.0601	0.005	---
ppm Water	ppm	ASTM D6304	>601	52.3	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.184	---

OIL ANALYSIS REPORT

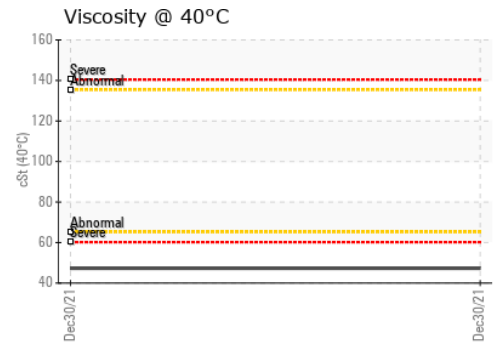


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE ▲ LIGHT	---	---
Yellow Metal	scalar	*Visual	NONE	---	---
Precipitate	scalar	*Visual	NONE	---	---
Silt	scalar	*Visual	NONE	---	---
Debris	scalar	*Visual	NONE ▲ MODER	---	---
Sand/Dirt	scalar	*Visual	NONE	---	---
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	47.3	---	---
Visc @ 100°C	cSt	ASTM D445	7.2	---	---
Viscosity Index (VI)	Scale	ASTM D2270	111	---	---

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. : TO10000606 **Received** : 06 Jan 2022
Lab Number : 05438043 **Tested** : 07 Jan 2022
Unique Number : 9802236 **Diagnosed** : 07 Jan 2022 - Doug Bogart
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

ERGON - CATOOSA
 5645 E CHANNEL RD
 CATOOSA, OK
 US 74015

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)

Contact: BRIAN MORGAN
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