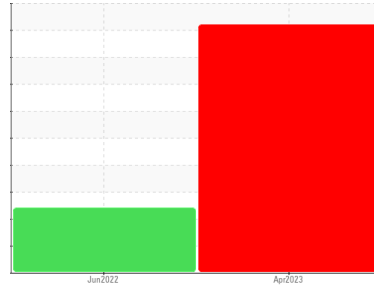


PROBLEM SUMMARY

Sample Rating Trend



WATER



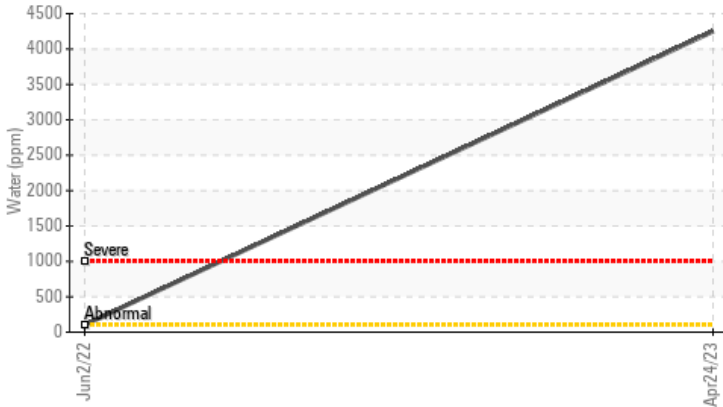
Machine Id
UNIT 3 UNIT 3

Component
Reservoir Oil

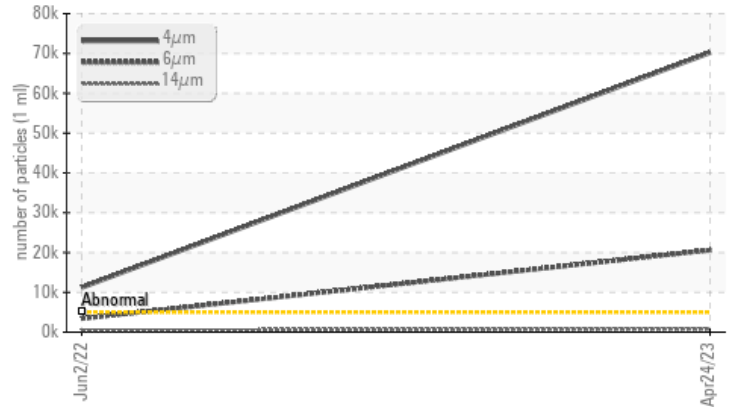
Fluid
ROYAL PURPLE SYNFILM 32 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Water (KF)



▲ Particle Trend



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	---
Water	%	ASTM D6304		▲ 0.425	0.010	---
ppm Water	ppm	ASTM D6304		▲ 4250	103.1	---
Particles >4µm		ASTM D7647	>5000	▲ 70183	▲ 11177	---
Particles >6µm		ASTM D7647	>1300	▲ 20601	▲ 3398	---
Particles >14µm		ASTM D7647	>160	▲ 742	▲ 505	---
Particles >21µm		ASTM D7647	>40	▲ 55	▲ 152	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/22/17	▲ 21/19/16	---
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	---
Emulsified Water	scalar	*Visual		▲ 0.2%	NEG	---
Free Water	scalar	*Visual		◆ 1.0	NEG	---

Customer Id: ENEPAT
Sample No.: RP0032112
Lab Number: 05829050
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@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
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

02 Jun 2022 Diag: Jonathan Hester

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

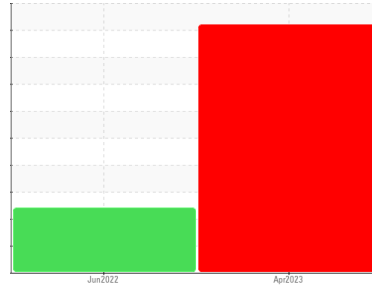
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
UNIT 3 UNIT 3

Component
Reservoir Oil
Fluid
ROYAL PURPLE SYNFILM 32 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. 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. Free water present. There is a moderate concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RP0032112	RP0020550	---
Sample Date	Client Info		24 Apr 2023	02 Jun 2022	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			SEVERE	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	0	<1	---
Chromium	ppm	ASTM D5185m >20	0	0	---
Nickel	ppm	ASTM D5185m >20	0	0	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >20	0	<1	---
Lead	ppm	ASTM D5185m >20	0	0	---
Copper	ppm	ASTM D5185m >20	0	0	---
Tin	ppm	ASTM D5185m >20	0	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	0	0	---
Manganese	ppm	ASTM D5185m	<1	0	---
Magnesium	ppm	ASTM D5185m 90	10	0	---
Calcium	ppm	ASTM D5185m	99	110	---
Phosphorus	ppm	ASTM D5185m	439	417	---
Zinc	ppm	ASTM D5185m	<1	2	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	4	4	---
Sodium	ppm	ASTM D5185m	<1	1	---
Potassium	ppm	ASTM D5185m >20	0	0	---
Water	%	ASTM D6304	▲ 0.425	0.010	---
ppm Water	ppm	ASTM D6304	▲ 4250	103.1	---

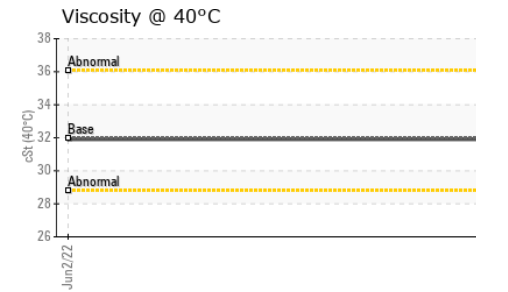
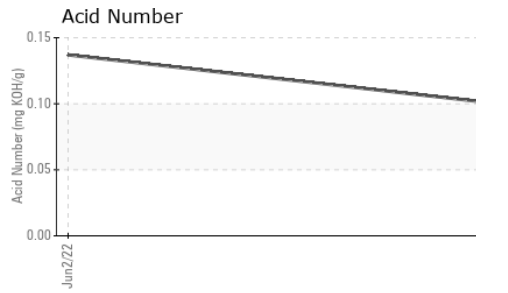
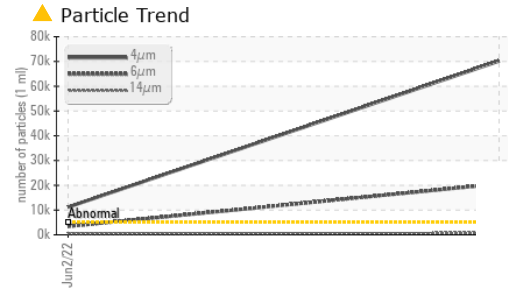
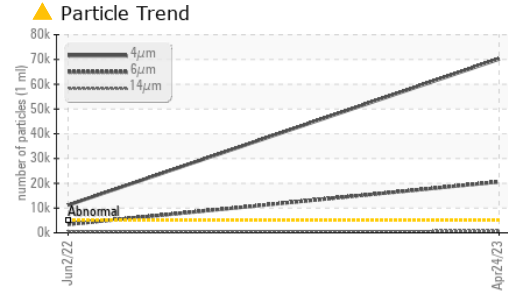
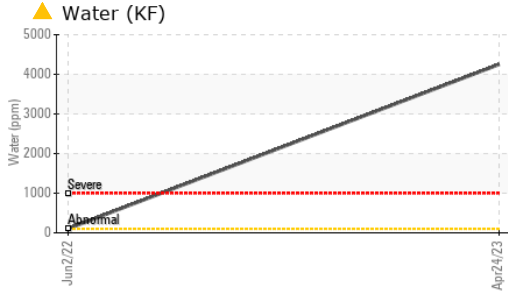
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 70183	▲ 11177	---
Particles >6µm	ASTM D7647	>1300	▲ 20601	▲ 3398	---
Particles >14µm	ASTM D7647	>160	▲ 742	▲ 505	---
Particles >21µm	ASTM D7647	>40	▲ 55	▲ 152	---
Particles >38µm	ASTM D7647	>10	5	▲ 17	---
Particles >71µm	ASTM D7647	>3	1	2	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 23/22/17	▲ 21/19/16	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.10	0.137	---

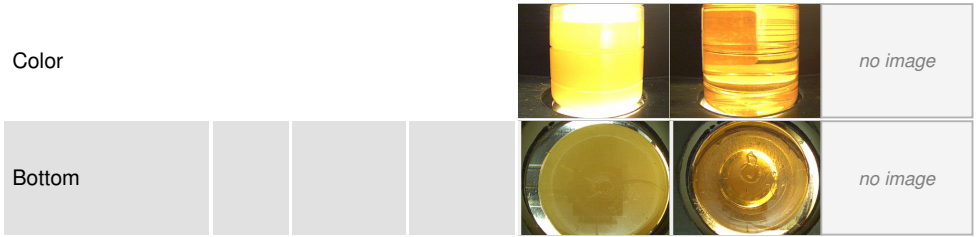
OIL ANALYSIS REPORT



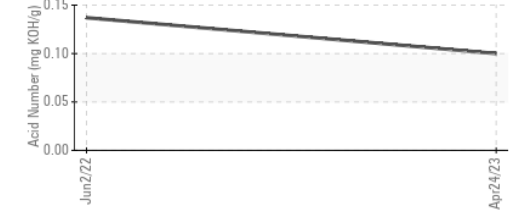
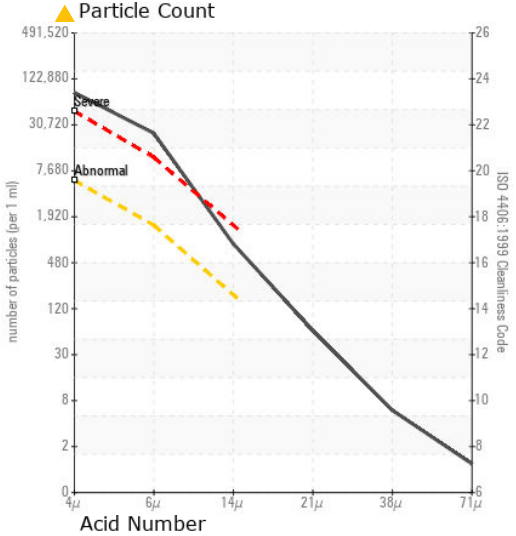
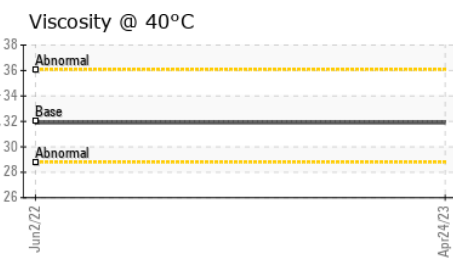
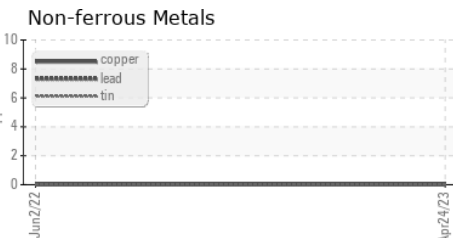
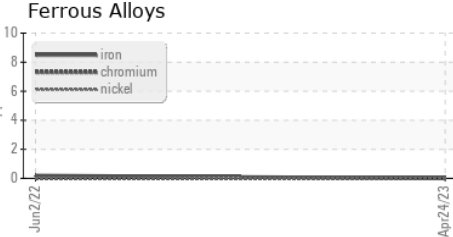
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	HAZY	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	0.2%	NEG	---	
Free Water	scalar	*Visual	1.0	NEG	---	

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	32	31.9	31.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0032112 **Received** : 25 Apr 2023
Lab Number : 05829050 **Diagnosed** : 28 Apr 2023
Unique Number : 10442543 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

ENERGY TRANSFER - PATOKA
 2189 KINOKA ROAD
 PATOKA, IL
 US 62875
 Contact: GREG GARRETT
 gregory.garrett@energytransfer.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)