

PROBLEM SUMMARY

Sample Rating Trend

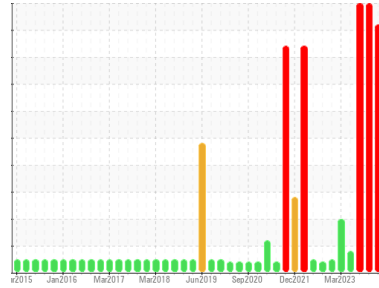
WEAR



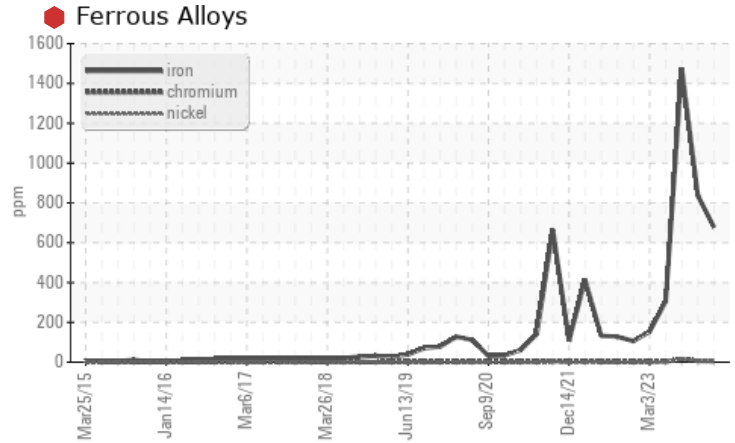
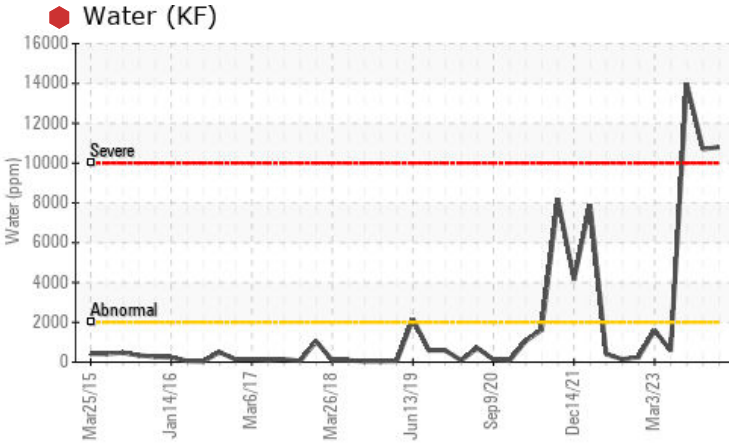
Machine Id CHEMINEER ZEBRA POLY AGITATOR GEARBOX

Component
Gearbox
Fluid

ROYAL PURPLE SYNERGY 90/150 (53 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>200	678	836	1476
Water	%	ASTM D6304	>0.2	1.08	1.07	1.40
ppm Water	ppm	ASTM D6304	>2000	10800	10700	14000
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	0.2%

Customer Id: OXYDEE
Sample No.: RP0035831
Lab Number: 06061268
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

06 Dec 2023 Diag: Don Baldrige

WEAR



We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level has decreased, but is still severe. Gear wear is indicated. There is a high concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

view report



03 Oct 2023 Diag: Don Baldrige

WEAR



We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. Gear wear is indicated. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid.

view report



01 May 2023 Diag: Don Baldrige

WEAR



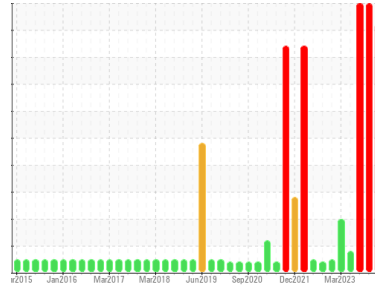
No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
CHEMINEER ZEBRA POLY AGITATOR GEARBOX
Component
Gearbox
Fluid
ROYAL PURPLE SYNERGY 90/150 (53 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

There is a high concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RP0035831	RP0035846	RP0032864
Sample Date	Client Info		02 Jan 2024	06 Dec 2023	03 Oct 2023
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info		N/A	Changed	N/A
Sample Status			SEVERE	SEVERE	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	678	836	1476
Chromium	ppm	ASTM D5185m >15	5	7	14
Nickel	ppm	ASTM D5185m >15	7	8	14
Titanium	ppm	ASTM D5185m	<1	0	2
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	4	5	8
Lead	ppm	ASTM D5185m >100	0	0	<1
Copper	ppm	ASTM D5185m >200	2	2	6
Tin	ppm	ASTM D5185m >25	0	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	0	<1
Barium	ppm	ASTM D5185m	0	0	3
Molybdenum	ppm	ASTM D5185m	1	<1	3
Manganese	ppm	ASTM D5185m	3	4	9
Magnesium	ppm	ASTM D5185m	0	0	2
Calcium	ppm	ASTM D5185m	6	0	6
Phosphorus	ppm	ASTM D5185m 200	637	394	501
Zinc	ppm	ASTM D5185m	0	1	23

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	15	14	33
Sodium	ppm	ASTM D5185m	2	1	0
Potassium	ppm	ASTM D5185m >20	1	0	1
Water	%	ASTM D6304 >0.2	1.08	1.07	1.40
ppm Water	ppm	ASTM D6304 >2000	10800	10700	14000

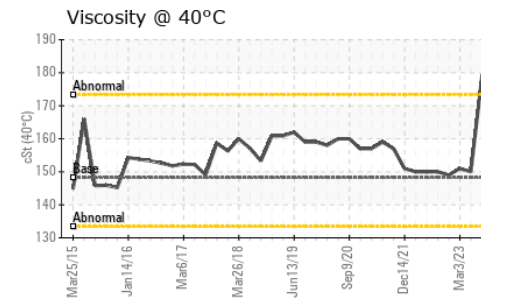
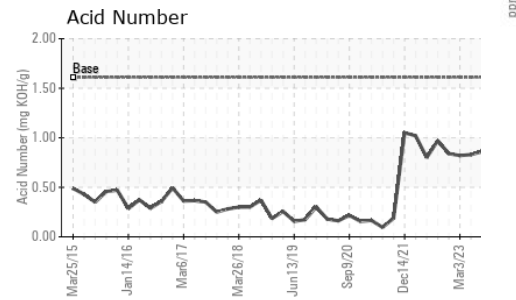
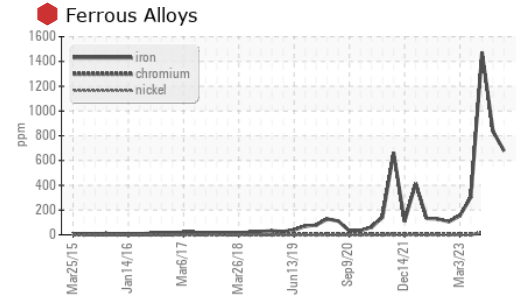
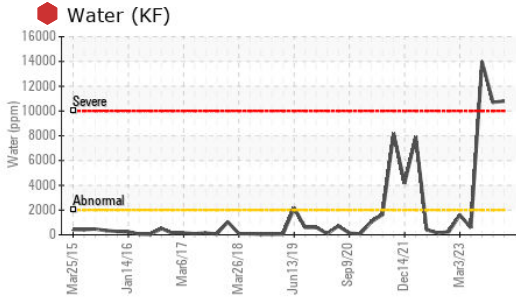
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.61	0.98	0.73	0.86

VISUAL

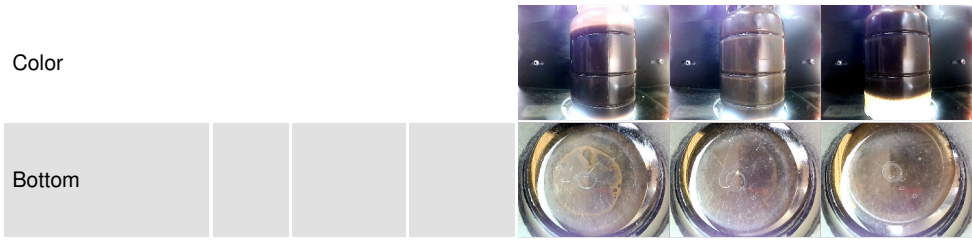
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	MODER	NONE
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE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

OIL ANALYSIS REPORT

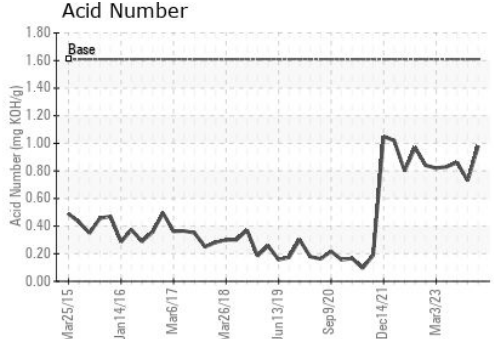
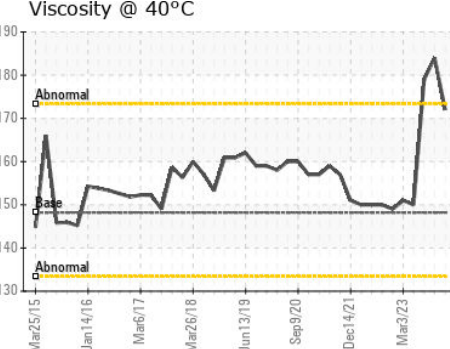
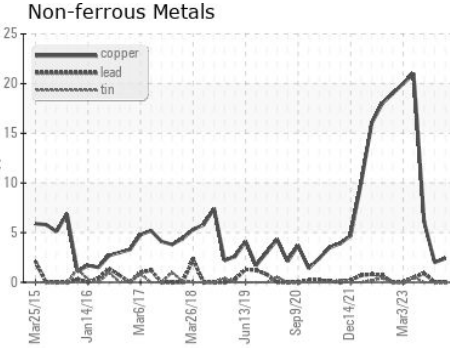
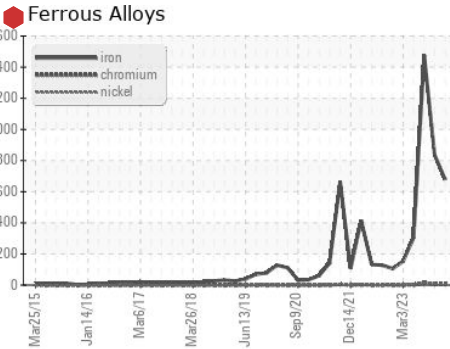


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	148.2	172	184	179

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0035831 **Received** : 16 Jan 2024
Lab Number : **06061268** **Diagnosed** : 18 Jan 2024
Unique Number : 10832650 **Diagnostician** : Jonathan Hester
Test Package : IND 2

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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)