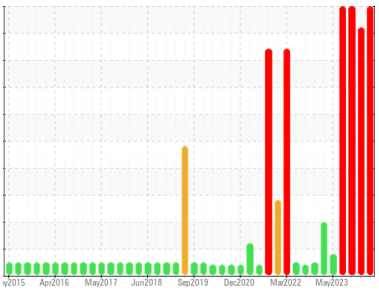
PROBLEM SUMMARY

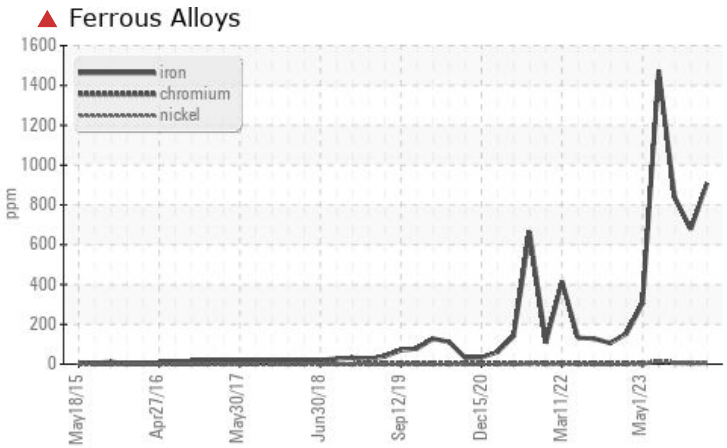
Sample Rating Trend

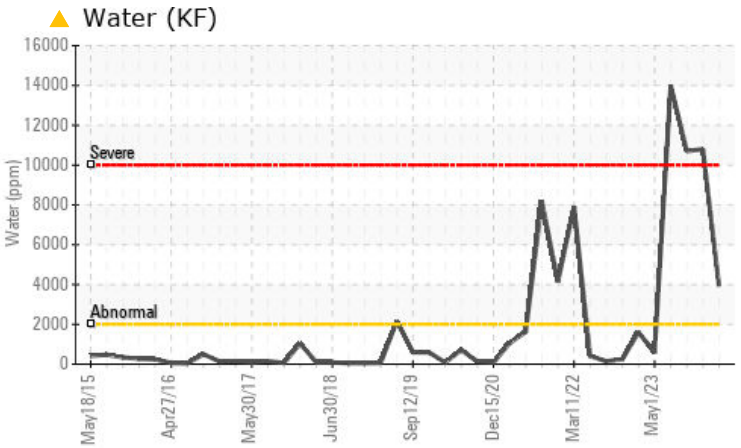


WEAR

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	▲ **909**	▲ 678	▲ 836
Water	%	ASTM D6304	>0.2	▲ **0.394**	▲ 1.08	▲ 1.07
ppm Water	ppm	ASTM D6304	>2000	▲ **3940**	▲ 10800	▲ 10700
Free Water	scalar	*Visual		▲ **5.0**	NEG	▲ 1.0

Customer Id: OXYDEE
Sample No.: RP0027910
Lab Number: 06134130
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

WEAR

02 Jan 2024 Diag: Jonathan Hester

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.Gear wear is indicated. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

view report

WEAR

06 Dec 2023 Diag: Don Baldridge

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

WEAR

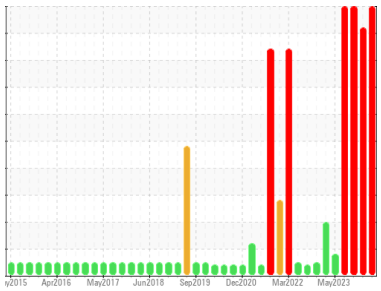
03 Oct 2023 Diag: Don Baldridge

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

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

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
The iron level is severe. Gear wear is indicated.

▲ Contamination
There is a light concentration of water present in the oil. Excessive free water present.

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		**RP0027910**	RP0035831	RP0035846
Sample Date		Client Info		**21 Mar 2024**	02 Jan 2024	06 Dec 2023
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	N/A	Changed
Sample Status				**SEVERE**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	▲ **909**	▲ 678	▲ 836
Chromium	ppm	ASTM D5185m	>15	**7**	5	7
Nickel	ppm	ASTM D5185m	>15	**9**	7	8
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**1**	0	0
Aluminum	ppm	ASTM D5185m	>25	**4**	4	5
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>200	**2**	2	2
Tin	ppm	ASTM D5185m	>25	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**<1**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	<1	0
Barium	ppm	ASTM D5185m		**1**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	1	<1
Manganese	ppm	ASTM D5185m		**5**	3	4
Magnesium	ppm	ASTM D5185m		**0**	0	0
Calcium	ppm	ASTM D5185m		**2**	6	0
Phosphorus	ppm	ASTM D5185m	200	**471**	637	394
Zinc	ppm	ASTM D5185m		**2**	0	1

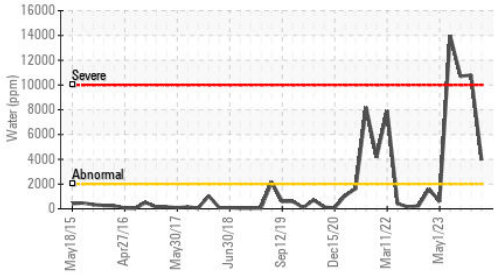
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**12**	15	14
Sodium	ppm	ASTM D5185m		**0**	2	1
Potassium	ppm	ASTM D5185m	>20	**<1**	1	0
Water	%	ASTM D6304	>0.2	▲ **0.394**	▲ 1.08	▲ 1.07
ppm Water	ppm	ASTM D6304	>2000	▲ **3940**	▲ 10800	▲ 10700

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.61	**0.72**	0.98	0.73

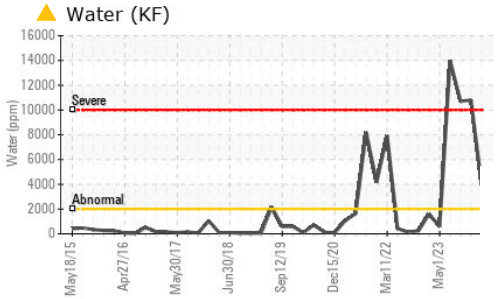
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	MODER
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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		▲ **5.0**	NEG	▲ 1.0

OIL ANALYSIS REPORT

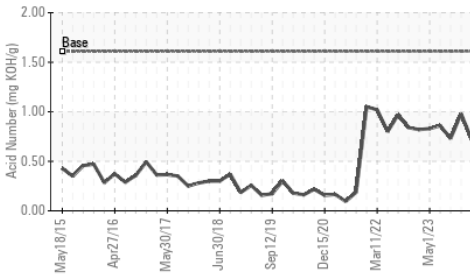
Water (KF)



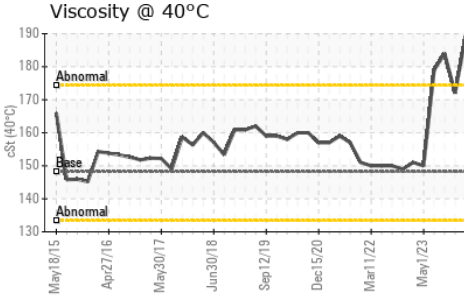
Water (KF)



Acid Number



Viscosity @ 40°C

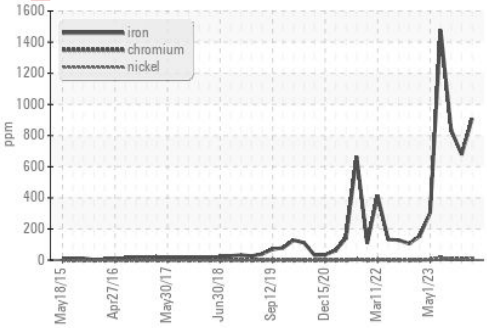


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	148.2	**189**	172	184

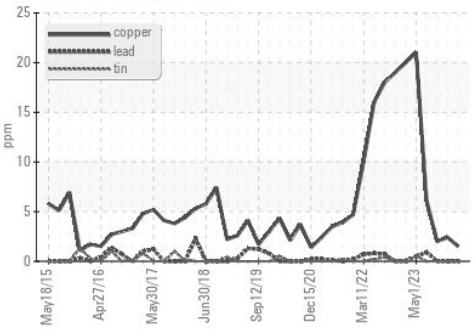
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

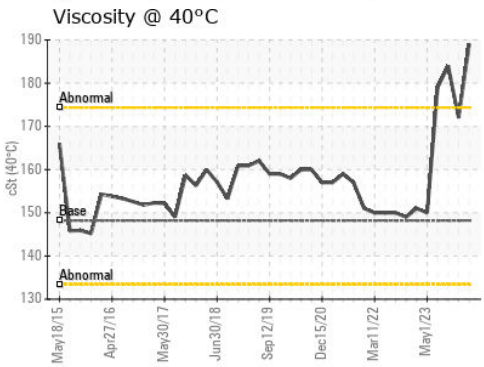
Ferrous Alloys



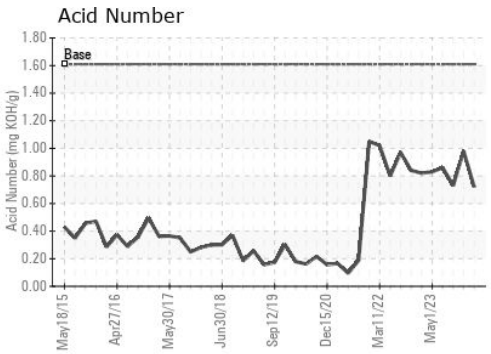
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0027910
Lab Number : 06134130
Unique Number : 10953595
Test Package : IND 2

Received : 29 Mar 2024
Tested : 03 Apr 2024
Diagnosed : 03 Apr 2024 - Don Baldridge

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)

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