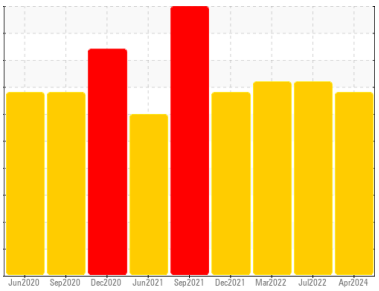
PROBLEM SUMMARY

Sample Rating Trend

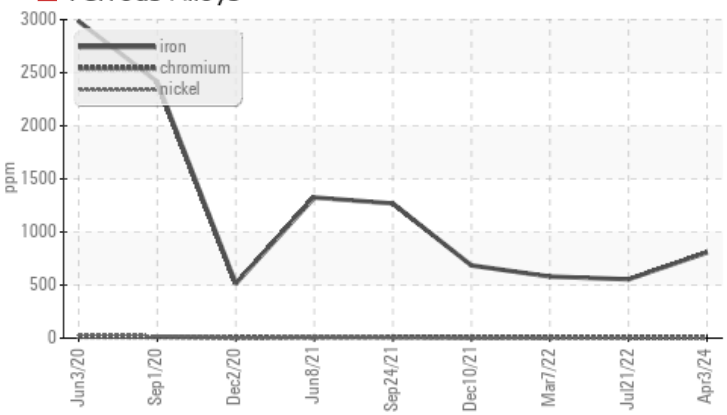


WEAR

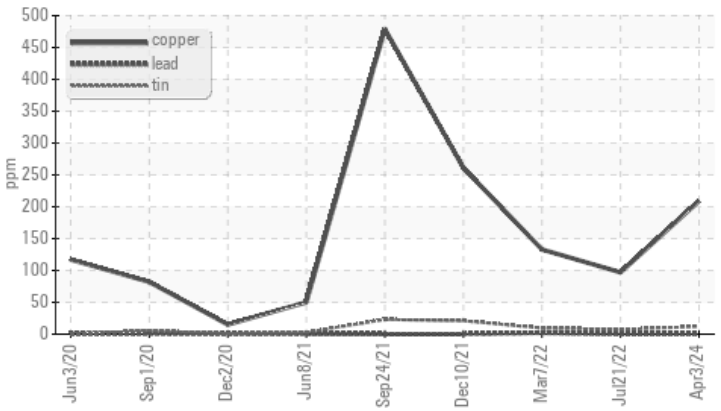
Machine Id
PFAUDLER RX-05 (S/N NB37708)
Component
Gearbox
Fluid
GEAR OIL SAE 80W90 (6 GAL)

COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



▲ Non-ferrous Metals



RECOMMENDATION

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	▲ **807**	▲ 554	▲ 580
Copper	ppm	ASTM D5185m	>200	▲ **209**	97	133

Customer Id: PIEHIG
Sample No.: WC0887930
Lab Number: 06138690
Test Package: PLANT

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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

WEAR

21 Jul 2022 Diag: Don Baldridge
We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Moderate concentration of visible metal present. Gear wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid.

view report

WEAR

07 Mar 2022 Diag: Don Baldridge
We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Moderate concentration of visible metal present. Gear wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid.

view report

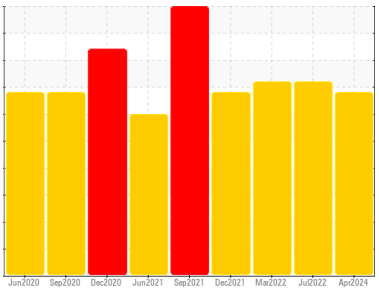
WEAR

10 Dec 2021 Diag: Don Baldridge
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.The iron level has decreased, but is still abnormal. Gear wear is indicated. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
PFAUDLER RX-05 (S/N NB37708)
Component
Gearbox
Fluid
GEAR OIL SAE 80W90 (6 GAL)

DIAGNOSIS

▲ Recommendation
We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear
Bearing and/or gear wear is indicated.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0887930**	WC0710500	WC0678330
Sample Date		Client Info		**03 Apr 2024**	21 Jul 2022	07 Mar 2022
Machine Age	mths	Client Info		**0**	0	3
Oil Age	mths	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	Not Changd
Sample Status				**SEVERE**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**79**	39	48
Iron	ppm	ASTM D5185m	>200	▲ **807**	▲ 554	▲ 580
Chromium	ppm	ASTM D5185m	>15	**6**	3	4
Nickel	ppm	ASTM D5185m	>15	**6**	4	6
Titanium	ppm	ASTM D5185m		**2**	2	1
Silver	ppm	ASTM D5185m		**0**	<1	2
Aluminum	ppm	ASTM D5185m	>25	**1**	3	2
Lead	ppm	ASTM D5185m	>100	**<1**	<1	2
Copper	ppm	ASTM D5185m	>200	▲ **209**	97	133
Tin	ppm	ASTM D5185m	>25	**12**	7	10
Antimony	ppm	ASTM D5185m	>5	**---**	---	3
Vanadium	ppm	ASTM D5185m		**<1**	0	<1
Cadmium	ppm	ASTM D5185m		**<1**	<1	<1

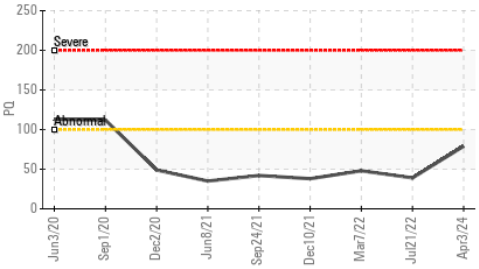
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	**2**	64	89
Barium	ppm	ASTM D5185m	200	**0**	0	0
Molybdenum	ppm	ASTM D5185m	12	**<1**	<1	1
Manganese	ppm	ASTM D5185m		**7**	5	6
Magnesium	ppm	ASTM D5185m	12	**0**	<1	<1
Calcium	ppm	ASTM D5185m	150	**0**	3	5
Phosphorus	ppm	ASTM D5185m	1650	**396**	695	819
Zinc	ppm	ASTM D5185m	125	**101**	65	66
Sulfur	ppm	ASTM D5185m	22500	**22830**	23643	20291

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**12**	10	10
Sodium	ppm	ASTM D5185m	>170	**<1**	<1	2
Potassium	ppm	ASTM D5185m	>20	**0**	0	<1
Water	%	ASTM D6304	>0.2	**NEG**	NEG	NEG

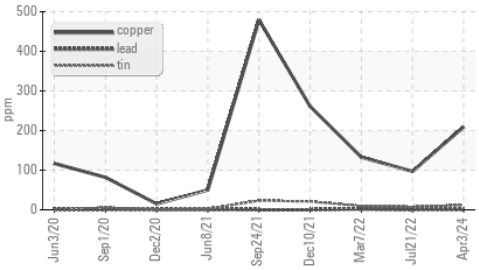
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	**0.73**	2.16	2.17

OIL ANALYSIS REPORT

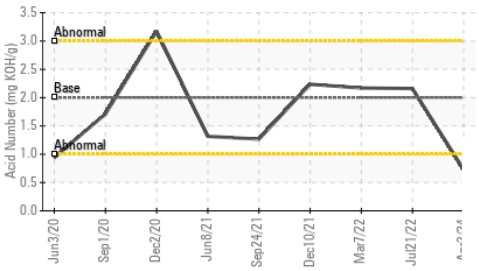
PQ



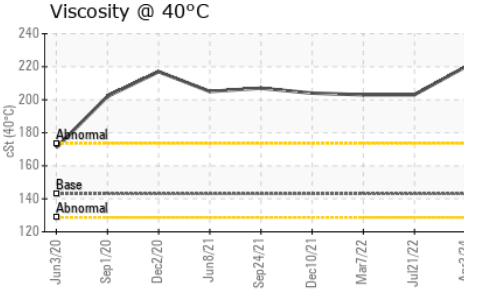
Non-ferrous Metals



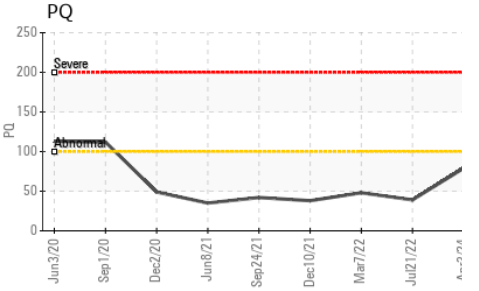
Acid Number



Viscosity @ 40°C

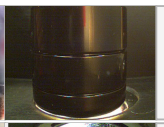
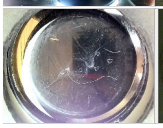


PQ



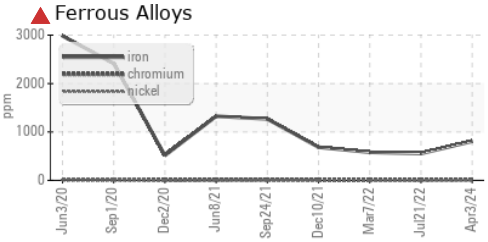
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	▲ MODER	▲ MODER
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
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	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	**220**	203	203

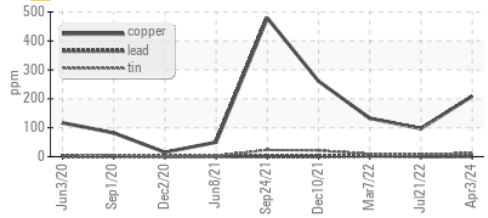
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

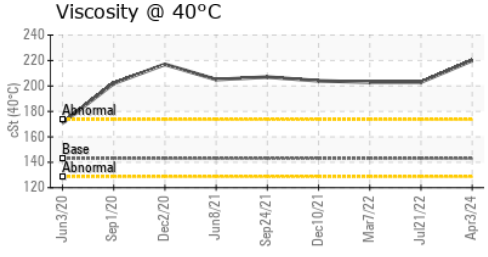
Ferrous Alloys



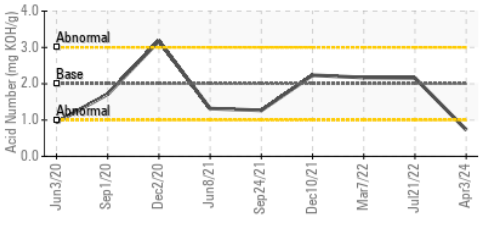
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0887930
Lab Number : 06138690
Unique Number : 10963498
Test Package : PLANT

Received : 04 Apr 2024
Tested : 09 Apr 2024
Diagnosed : 09 Apr 2024 - Jonathan Hester

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)

Piedmont Chemical Industries
331 BURTON AVE.
HIGH POINT, NC
US 27261
Contact: BOB BURGES
bburges@piedmontchemical.com
T: (336)885-5131
F: