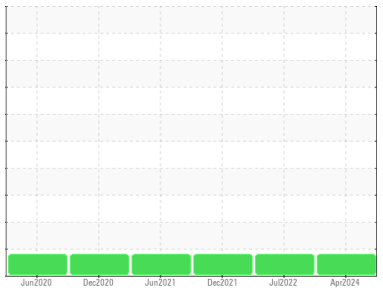
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
CHEMINEER RX-21 (S/N 173247-1)
Component
Gearbox
Fluid
{not provided} (4 GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
Gear wear is indicated. All other component wear rates are normal.

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

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0887938**	WC0710512	WC0646525
Sample Date		Client Info		**03 Apr 2024**	19 Jul 2022	10 Dec 2021
Machine Age	yrs	Client Info		**0**	0	4
Oil Age	yrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**122**	127	128
Iron	ppm	ASTM D5185m	>200	▲ **380**	▲ 372	▲ 440
Chromium	ppm	ASTM D5185m	>15	**2**	2	<1
Nickel	ppm	ASTM D5185m	>15	**1**	2	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	<1	0
Aluminum	ppm	ASTM D5185m	>25	**4**	4	5
Lead	ppm	ASTM D5185m	>100	**<1**	2	<1
Copper	ppm	ASTM D5185m	>200	**2**	2	<1
Tin	ppm	ASTM D5185m	>25	**0**	0	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**4**	5	4

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**60**	63	47
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**4**	5	3
Manganese	ppm	ASTM D5185m		**3**	3	2
Magnesium	ppm	ASTM D5185m		**0**	1	0
Calcium	ppm	ASTM D5185m		**2**	4	0
Phosphorus	ppm	ASTM D5185m		**810**	981	1064
Zinc	ppm	ASTM D5185m		**921**	873	935
Sulfur	ppm	ASTM D5185m		**26491**	26275	21244

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**16**	15	14
Sodium	ppm	ASTM D5185m		**3**	2	2
Potassium	ppm	ASTM D5185m	>20	**3**	1	2
Water	%	ASTM D6304	>0.2	**NEG**	NEG	NEG

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**2.38**	2.04	2.256

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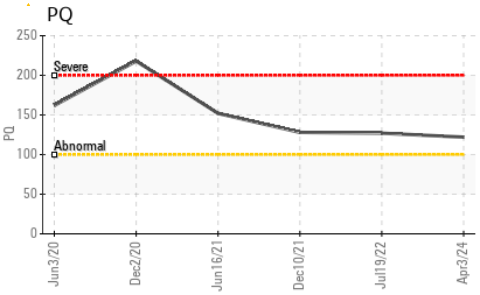
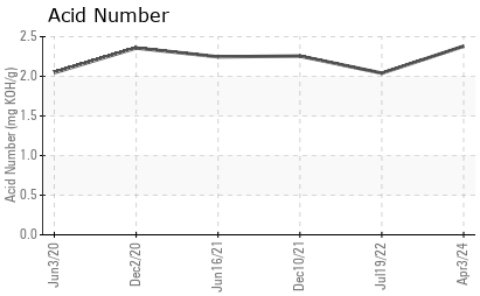
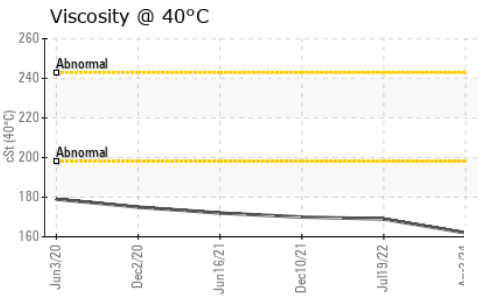
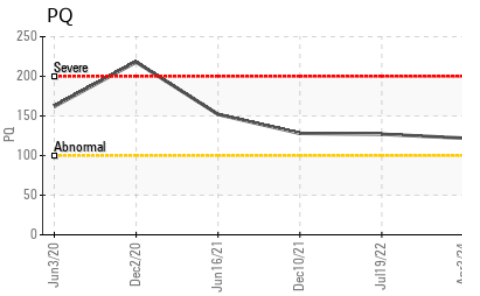


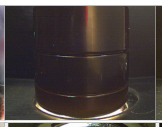
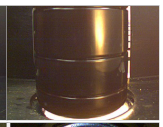
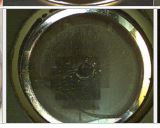
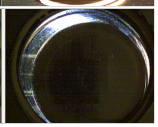




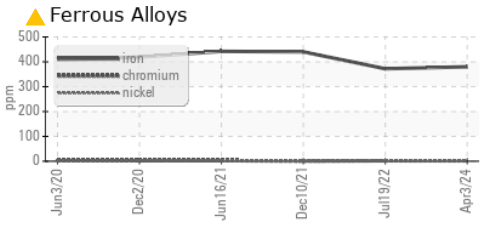


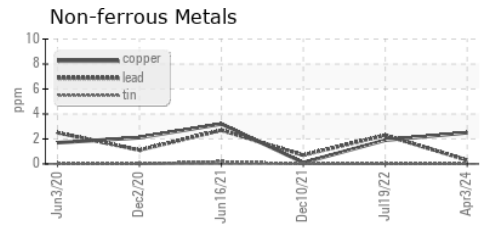
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	VLITE
Sand/Dirt	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

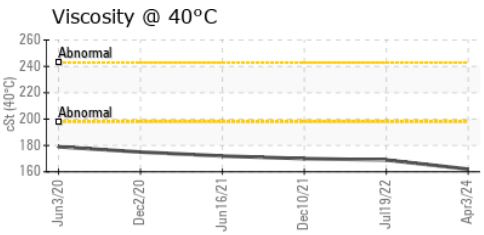
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**162**	169	170

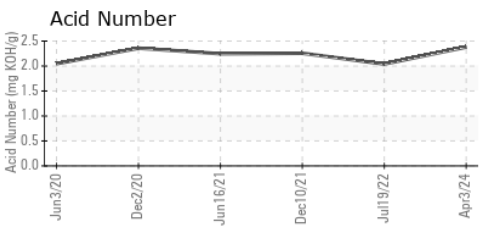
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0887938
Lab Number : 06138678
Unique Number : 10963486
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: