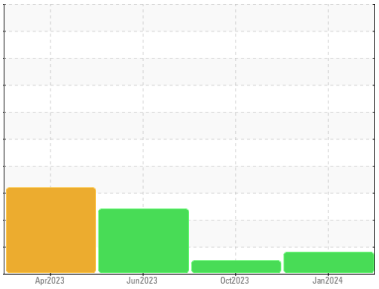
PROBLEM SUMMARY

Sample Rating Trend

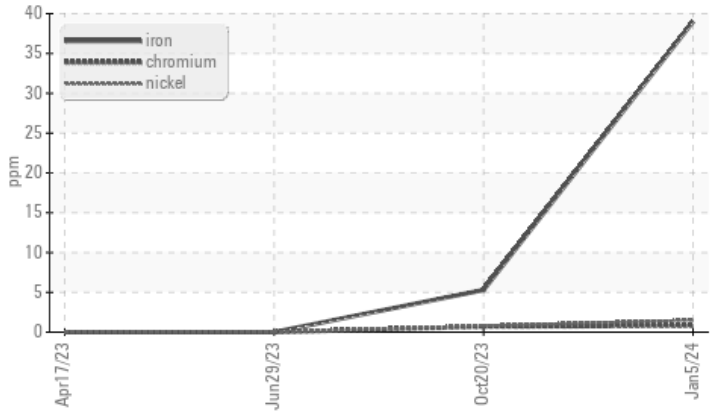


WATER

Machine Id
T001-02
Component
Hydraulic System
Fluid
ERIFON 818 (--- GAL)

COMPONENT CONDITION SUMMARY

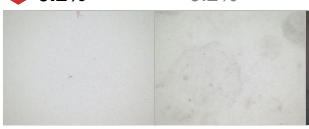
▲ Ferrous Alloys



RECOMMENDATION

We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>20	▲ **39**	5	0
Emulsified Water	scalar	*Visual	>0.05	⬢ **0.2%**	0.2%	NEG
PrtFilter						

Customer Id: PAREUG
Sample No.: PH0001547
Lab Number: 06062633
Test Package: PLANT

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@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
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

20 Oct 2023 Diag: Jonathan Hester

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. pH is 9.10. The condition of the oil is suitable for further service.

view report

29 Jun 2023 Diag: Doug Bogart

DEGRADATION

We recommend an early resample to monitor this condition. Please submit a sample of the new (unused) oil to establish a baseline.All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is above the recommended limit.

view report

17 Apr 2023 Diag: Jonathan Hester

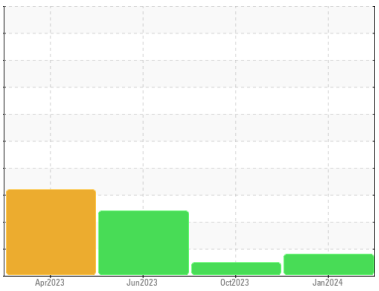
DEGRADATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is above the recommended limit. The oil is no longer serviceable.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
T001-02
Component
Hydraulic System
Fluid
ERIFON 818 (--- GAL)

DIAGNOSIS

Recommendation
We recommend an early resample to monitor this condition.

Wear
The iron level is abnormal.

Contamination
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition
The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PH0001547**	PH0001554	PH0000638
Sample Date		Client Info		**05 Jan 2024**	20 Oct 2023	29 Jun 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	NORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ **39**	5	0
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>20	**2**	<1	0
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**9**	14	0
Lead	ppm	ASTM D5185m	>20	**<1**	0	0
Copper	ppm	ASTM D5185m	>20	**<1**	<1	0
Tin	ppm	ASTM D5185m	>20	**1**	<1	0
Vanadium	ppm	ASTM D5185m		**<1**	1	<1
Cadmium	ppm	ASTM D5185m		**<1**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**20**	10	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	<1	0
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m		**3**	0	<1
Calcium	ppm	ASTM D5185m		**13**	<1	0
Phosphorus	ppm	ASTM D5185m		**359**	1903	793
Zinc	ppm	ASTM D5185m		**0**	0	0
Sulfur	ppm	ASTM D5185m		**263**	17	0

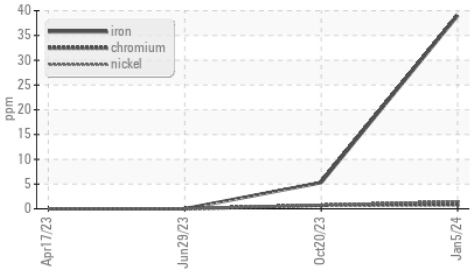
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**3**	3	<1
Sodium	ppm	ASTM D5185m		**89**	77	0
Potassium	ppm	ASTM D5185m	>20	**15**	12	0
Water	%	ASTM D6304	>0.05	**34.2**	35.1	0.005
ppm Water	ppm	ASTM D6304	>500	**342000**	351000	50

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**2775**	2097	3515
Particles >6µm		ASTM D7647	>2500	**1512**	1142	1915
Particles >14µm		ASTM D7647	>320	**257**	194	▲ 326
Particles >21µm		ASTM D7647	>80	**87**	65	▲ 110
Particles >38µm		ASTM D7647	>20	**13**	10	17
Particles >71µm		ASTM D7647	>4	**1**	1	2
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**19/18/15**	18/17/15	▲ 19/18/16

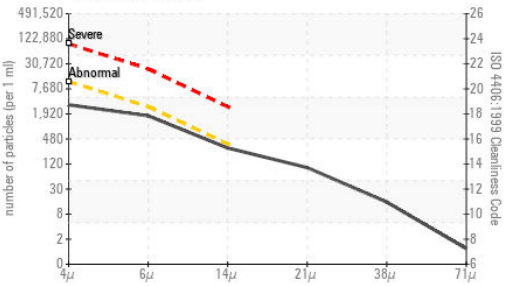
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**5.653**	6.25	▲ 4.888

OIL ANALYSIS REPORT

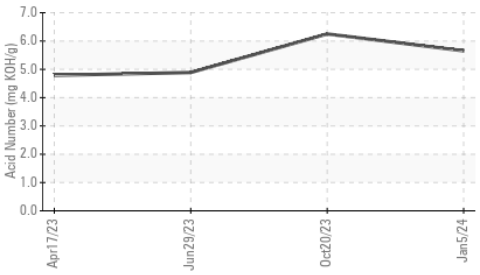
Ferrous Alloys



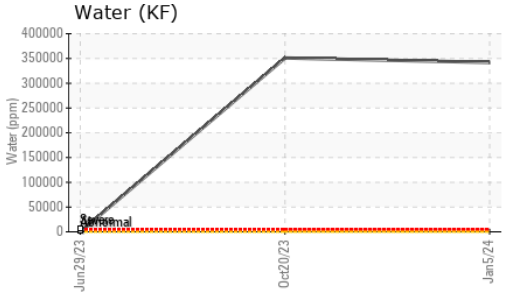
Particle Count



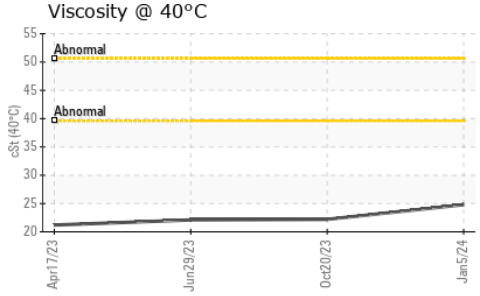
Acid Number



Water (KF)

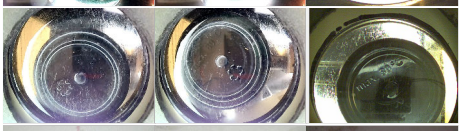
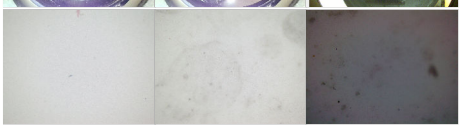


Viscosity @ 40°C



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	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	>0.05	**0.2%**	0.2%	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287		**9.00**	9.10	---
Visc @ 40°C	cSt	ASTM D445		**24.8**	22.2	22.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter					

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0001547
Lab Number : 06062633
Unique Number : 10834015
Test Package : PLANT (Additional Tests: KF, pH, PrtFilter)

Received : 17 Jan 2024
Tested : 26 Jan 2024
Diagnosed : 05 Feb 2024 - Doug Bogart

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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