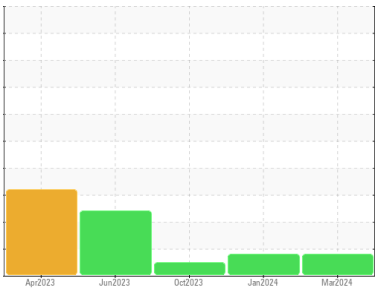
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

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		**PH0001542**	PH0001547	PH0001554
Sample Date		Client Info		**21 Mar 2024**	05 Jan 2024	20 Oct 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				**ABNORMAL**	SEVERE	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ **35**	▲ 39	5
Chromium	ppm	ASTM D5185m	>20	**1**	<1	<1
Nickel	ppm	ASTM D5185m	>20	**2**	2	<1
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**16**	9	14
Lead	ppm	ASTM D5185m	>20	**<1**	<1	0
Copper	ppm	ASTM D5185m	>20	**<1**	<1	<1
Tin	ppm	ASTM D5185m	>20	**1**	1	<1
Vanadium	ppm	ASTM D5185m		**1**	<1	1
Cadmium	ppm	ASTM D5185m		**<1**	<1	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**65**	20	10
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	<1
Manganese	ppm	ASTM D5185m		**<1**	<1	0
Magnesium	ppm	ASTM D5185m		**1**	3	0
Calcium	ppm	ASTM D5185m		**10**	13	<1
Phosphorus	ppm	ASTM D5185m		**652**	359	1903
Zinc	ppm	ASTM D5185m		**16**	0	0
Sulfur	ppm	ASTM D5185m		**588**	263	17

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**4**	3	3
Sodium	ppm	ASTM D5185m		**192**	89	77
Potassium	ppm	ASTM D5185m	>20	**30**	15	12
Water	%	ASTM D6304	>0.05	**33.6**	34.2	35.1
ppm Water	ppm	ASTM D6304	>500	**336000**	342000	351000

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**3106**	2775	2097
Particles >6µm		ASTM D7647	>2500	**1692**	1512	1142
Particles >14µm		ASTM D7647	>320	**288**	257	194
Particles >21µm		ASTM D7647	>80	**97**	87	65
Particles >38µm		ASTM D7647	>20	**15**	13	10
Particles >71µm		ASTM D7647	>4	**2**	1	1
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**19/18/15**	19/18/15	18/17/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**6.216**	5.653	6.25

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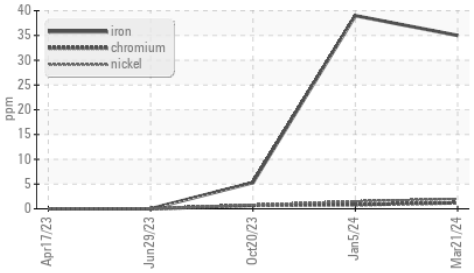
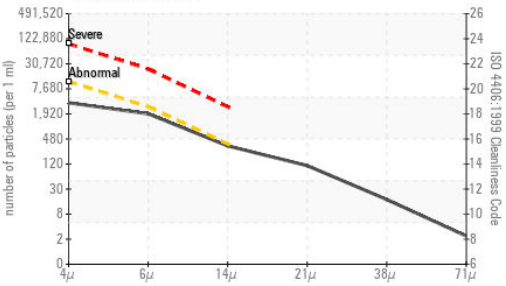
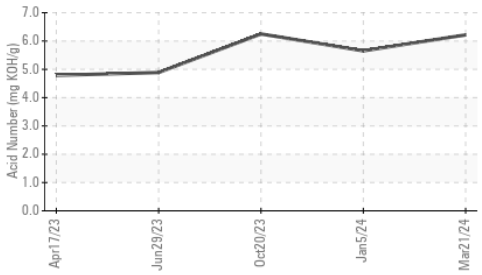
Ferrous Alloys



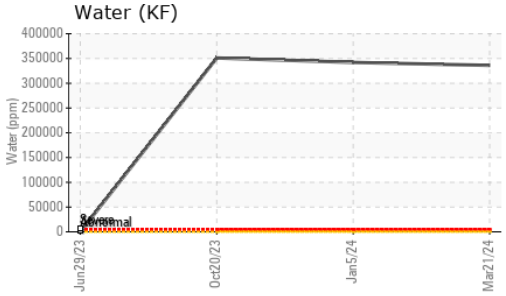
Particle Count



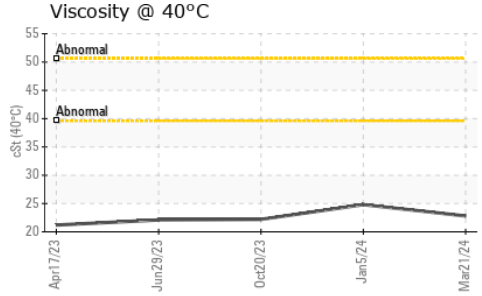
Acid Number



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

FLUID PROPERTIES		method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287		**9.00**	9.00	9.10
Visc @ 40°C	cSt	ASTM D445		**22.8**	24.8	22.2

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

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0001542
Lab Number : 06141303
Unique Number : 10966111
Test Package : PLANT (Additional Tests: KF, pH, PrtFilter)

Received : 08 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 15 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)

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