



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
EPF4 Hydraulics
 Component
Hydraulic System
 Fluid
GULF AW 68 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0724324	WC0491534	---
Sample Date		Client Info		10 Oct 2022	21 Jan 2021	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	16	16	---
Chromium	ppm	ASTM D5185m	>20	2	5	---
Nickel	ppm	ASTM D5185m	>20	8	8	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>20	0	<1	---
Lead	ppm	ASTM D5185m	>20	0	<1	---
Copper	ppm	ASTM D5185m	>20	9	10	---
Tin	ppm	ASTM D5185m	>20	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

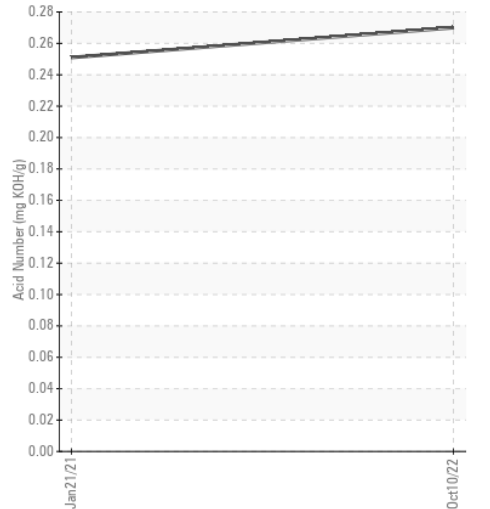
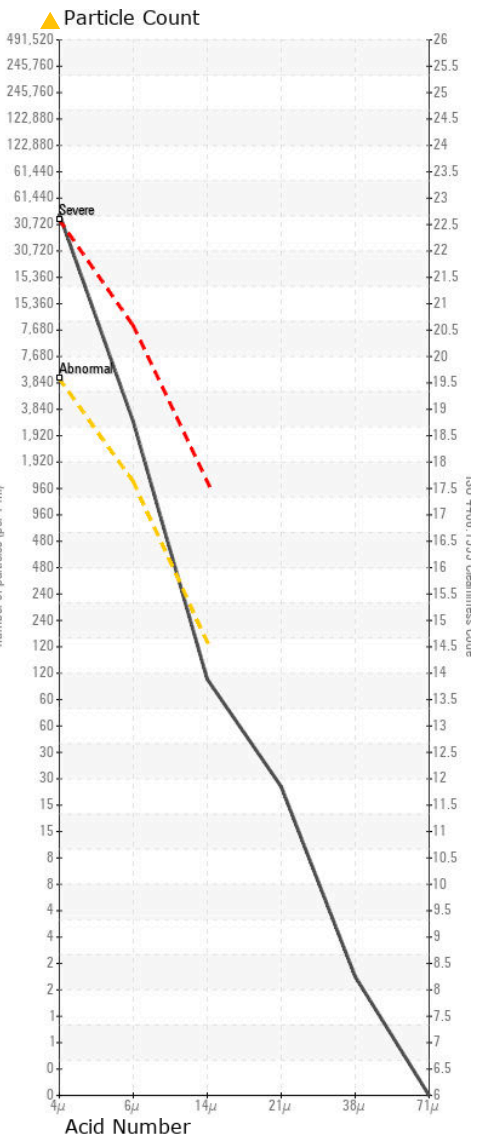
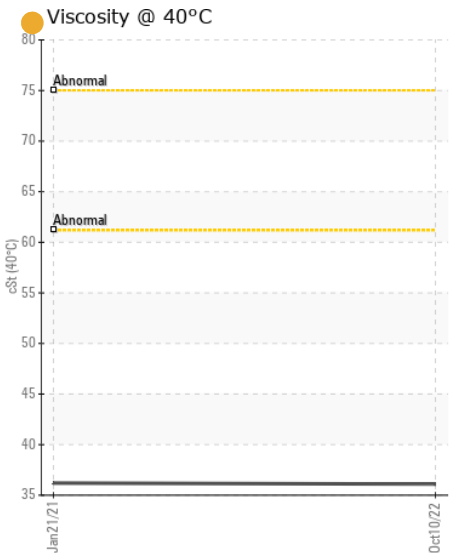
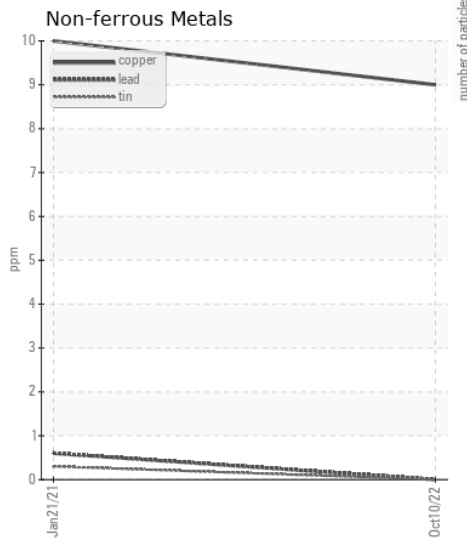
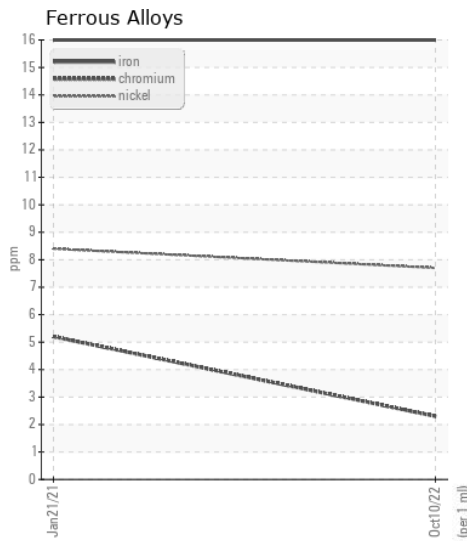
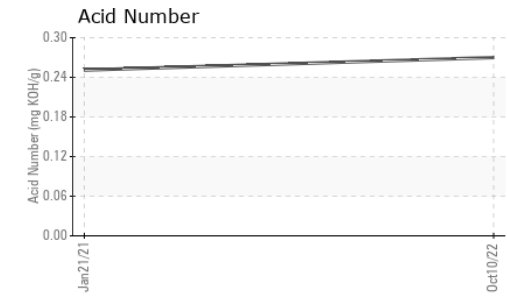
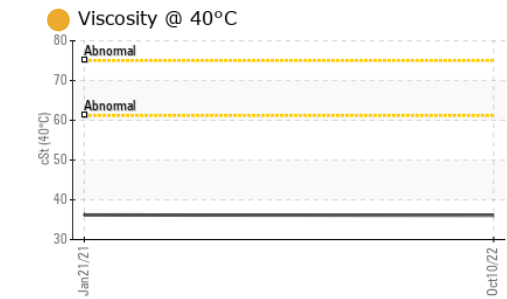
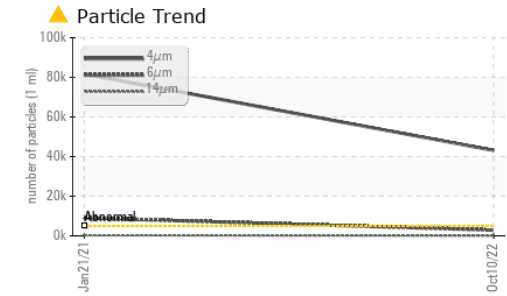
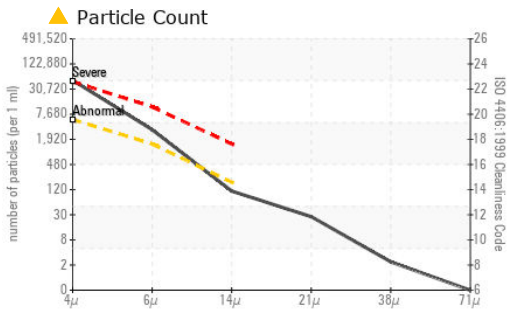
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>15	<1	<1	---
Potassium	ppm	ASTM D5185m	>20	10	16	---
Water	%	ASTM D6304	>0.05	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 43131	▲ 81686	---
Particles >6µm		ASTM D7647	>1300	▲ 2851	▲ 9019	---
Particles >14µm		ASTM D7647	>160	98	▲ 295	---
Particles >21µm		ASTM D7647	>40	24	▲ 69	---
Particles >38µm		ASTM D7647	>10	2	4	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/19/14	▲ 24/20/15	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		27	34	---
Boron	ppm	ASTM D5185m		0	2	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		<1	3	---
Calcium	ppm	ASTM D5185m		22	36	---
Phosphorus	ppm	ASTM D5185m		321	347	---
Zinc	ppm	ASTM D5185m		321	370	---
Sulfur	ppm	ASTM D5185m		3645	3782	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.27	0.251	---
Visc @ 40°C	cSt	ASTM D445		36.1	36.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0724324 Received : 20 Oct 2022
 Lab Number : 05671515 Tested : 24 Oct 2022
 Unique Number : 10181085 Diagnosed : 24 Oct 2022 - Doug Bogart
 Test Package : PLANT

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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