



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL
SEVERE
NORMAL



Machine Id
BELL B45E B93A645EK03007699
Component
Center Right Final Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

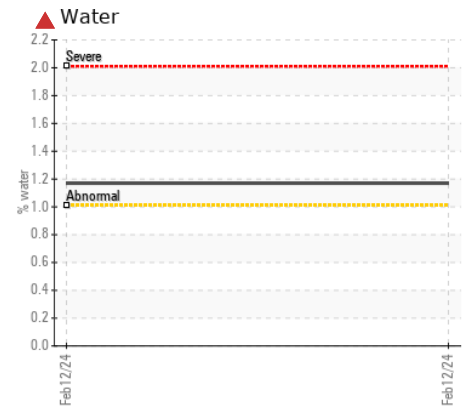
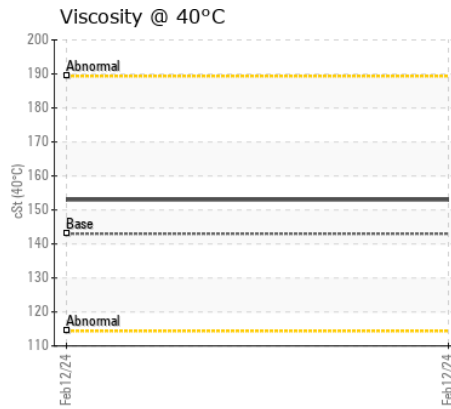
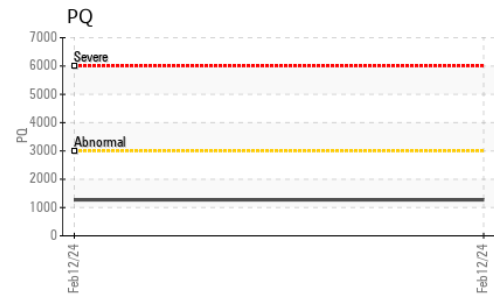
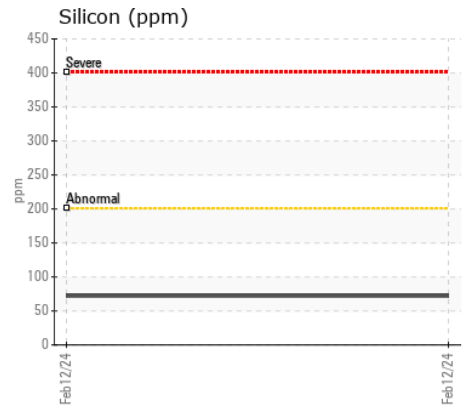
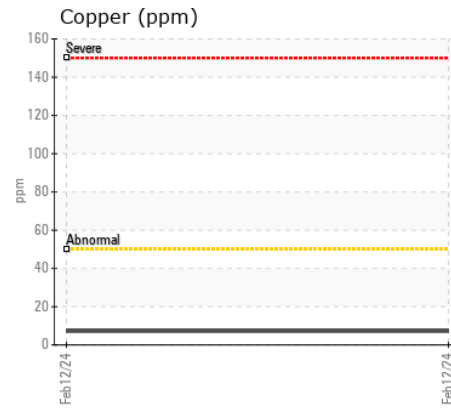
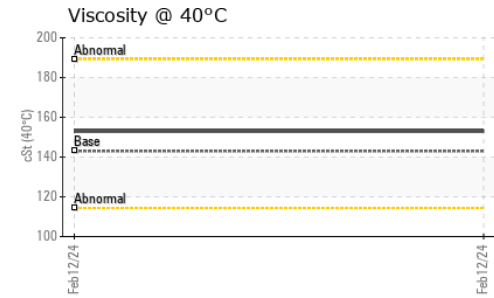
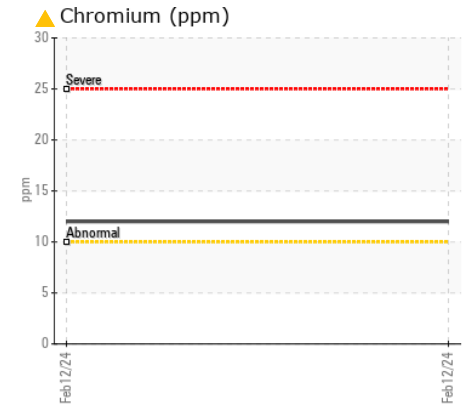
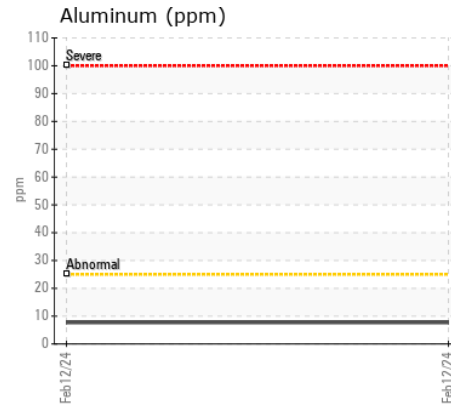
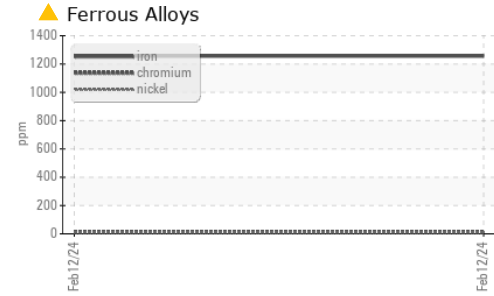
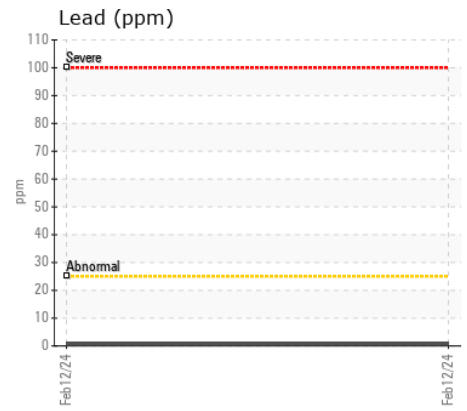
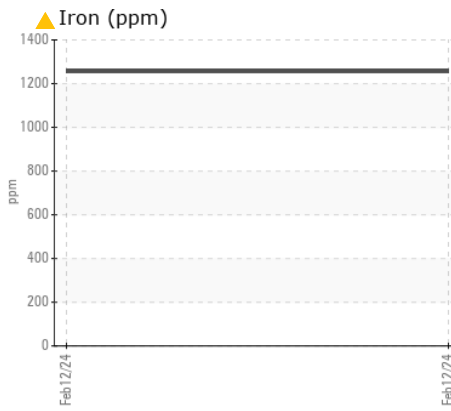
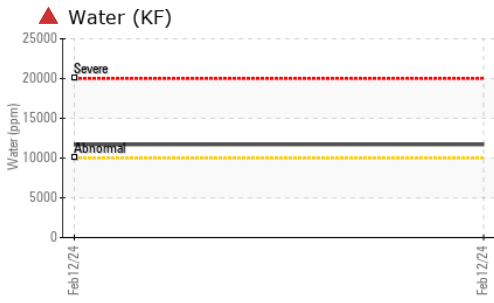
CONTAMINATION

There is a high concentration of water present in the oil.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		BE0003733	---	---
Sample Date		Client Info		12 Feb 2024	---	---
Machine Age	hrs	Client Info		4170	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184	>3000	1271	---	---
Iron	ppm	ASTM D5185m	>HR:1=	▲ 1256	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 12	---	---
Nickel	ppm	ASTM D5185m	>10	11	---	---
Titanium	ppm	ASTM D5185m		2	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	8	---	---
Lead	ppm	ASTM D5185m	>25	<1	---	---
Copper	ppm	ASTM D5185m	>50	7	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>201	72	---	---
Potassium	ppm	ASTM D5185m	>20	5	---	---
Water	%	ASTM D6304	>1.01	▲ 1.17	---	---
ppm Water	ppm	ASTM D6304	>10001	▲ 11700	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>1.01	▲ 0.2%	---	---
Sodium	ppm	ASTM D5185m	>170	5	---	---
Boron	ppm	ASTM D5185m	400	12	---	---
Barium	ppm	ASTM D5185m	200	0	---	---
Molybdenum	ppm	ASTM D5185m	12	2	---	---
Manganese	ppm	ASTM D5185m		18	---	---
Magnesium	ppm	ASTM D5185m	12	25	---	---
Calcium	ppm	ASTM D5185m	150	87	---	---
Phosphorus	ppm	ASTM D5185m	1650	637	---	---
Zinc	ppm	ASTM D5185m	125	91	---	---
Sulfur	ppm	ASTM D5185m	22500	16867	---	---
Visc @ 40°C	cSt	ASTM D445	143	153	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : BE0003733
Lab Number : 06101979
Unique Number : 10900209
Test Package : MOBCE (Additional Tests: KF)

Received : 27 Feb 2024
Tested : 28 Feb 2024
Diagnosed : 29 Feb 2024 - Jonathan Hester

Four Seasons Equipment Inc.
 8111 Mills Road
 Houston, TX
 US 77064

Contact: Vaughan Phillips
 vphillips@fourseasons-equip.com
 T: (800)234-5007

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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