



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
BELL B50E B93A650EK03007635
Component
Diesel Engine
Fluid
ROTELLA T6 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		BE0003301	BE0003270	BE0003269
Sample Date		Client Info		22 Feb 2024	21 Nov 2022	28 Feb 2022
Machine Age	hrs	Client Info		4556	2630	947
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>79	29	4	---
Iron	ppm	ASTM D5185m	>100	46	11	10
Chromium	ppm	ASTM D5185m	>20	7	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	4	2	3
Lead	ppm	ASTM D5185m	>40	0	<1	3
Copper	ppm	ASTM D5185m	>330	12	20	325
Tin	ppm	ASTM D5185m	>15	1	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

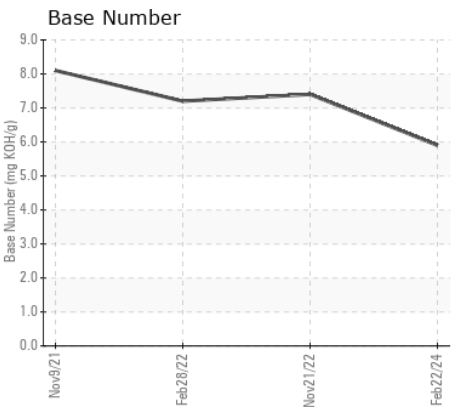
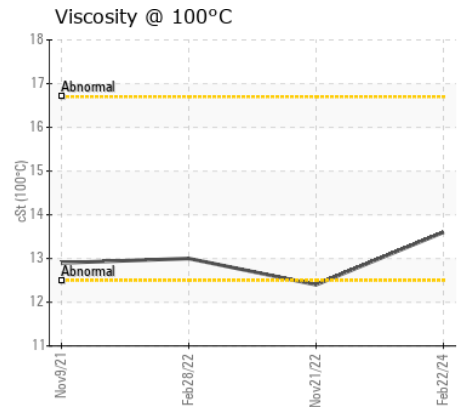
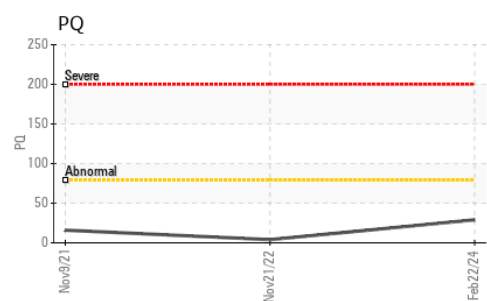
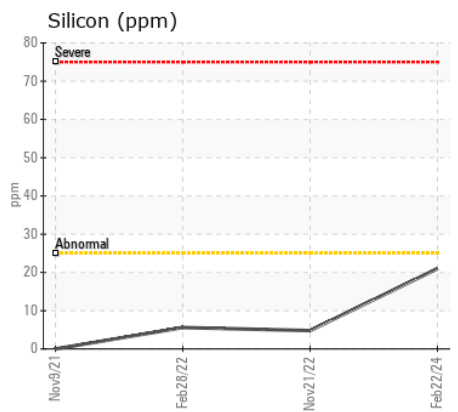
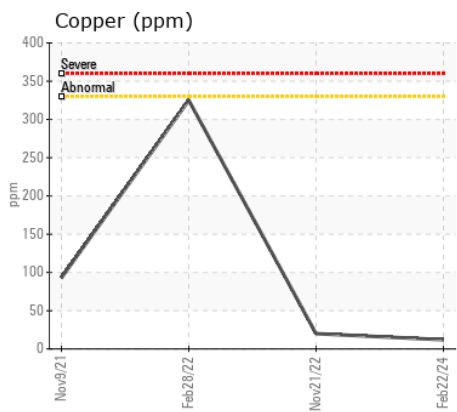
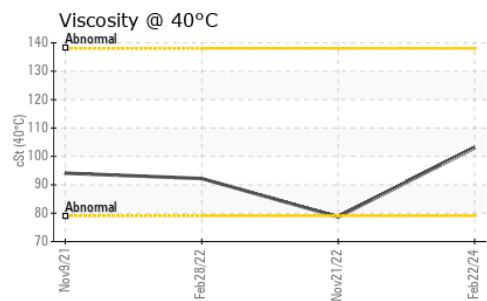
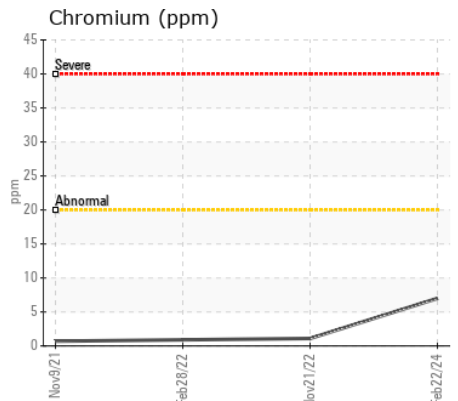
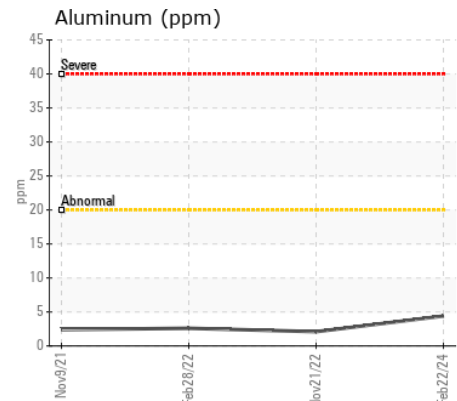
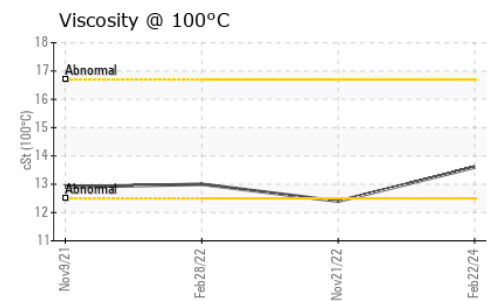
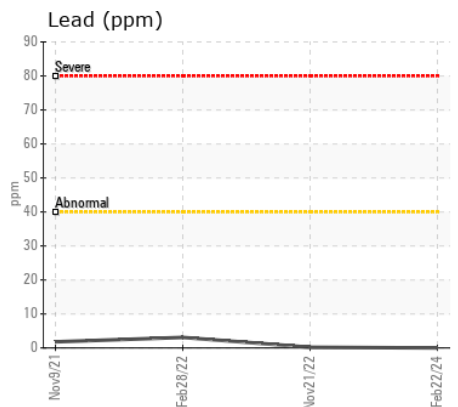
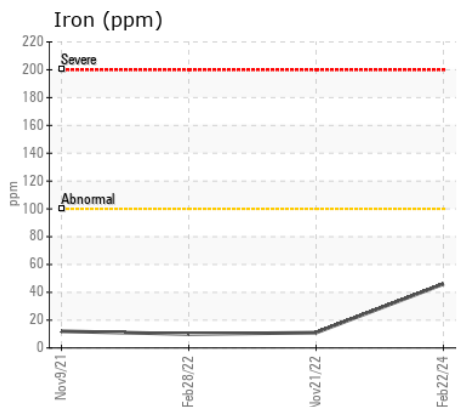
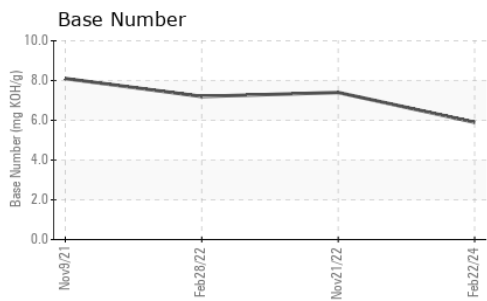
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	21	5	6
Potassium	ppm	ASTM D5185m	>20	39	2	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.5	9.3	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	21.8	21.2
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		28	2	1
Boron	ppm	ASTM D5185m		43	56	280
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		29	20	82
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		193	667	464
Calcium	ppm	ASTM D5185m		2120	1349	1590
Phosphorus	ppm	ASTM D5185m		819	752	883
Zinc	ppm	ASTM D5185m		1149	939	1001
Sulfur	ppm	ASTM D5185m		3227	3146	2562
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.4	17.9	16.1
Base Number (BN)	mg KOH/g	ASTM D2896		5.9	7.4	7.2
Visc @ 40°C	cSt	ASTM D445		103	78.7	92.2
Visc @ 100°C	cSt	ASTM D445		13.6	12.4	13.0
Viscosity Index (VI)	Scale	ASTM D2270		131	155	139



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : BE0003301
Lab Number : 06102844
Unique Number : 10901074
Test Package : MOBCE
Received : 28 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 01 Mar 2024 - Don Baldrige

Four Seasons Equipment Inc.
 8111 Mills Road
 Houston, TX
 US 77064
 Contact: Vaughan Phillips
 vphillips@fourseasons-equip.com
 T: (800)234-5007
 F:

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)