



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 650K-II 1T0650KKTNF433022
 Component
Diesel Engine
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212966	JR0194581	---
Sample Date		Client Info		14 Apr 2024	01 Jan 2024	---
Machine Age	hrs	Client Info		2157	1592	---
Oil Age	hrs	Client Info		2157	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	16	34	---
Chromium	ppm	ASTM D5185m	>11	<1	1	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	6	7	---
Lead	ppm	ASTM D5185m	>26	22	▲ 115	---
Copper	ppm	ASTM D5185m	>26	5	14	---
Tin	ppm	ASTM D5185m	>4	<1	2	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

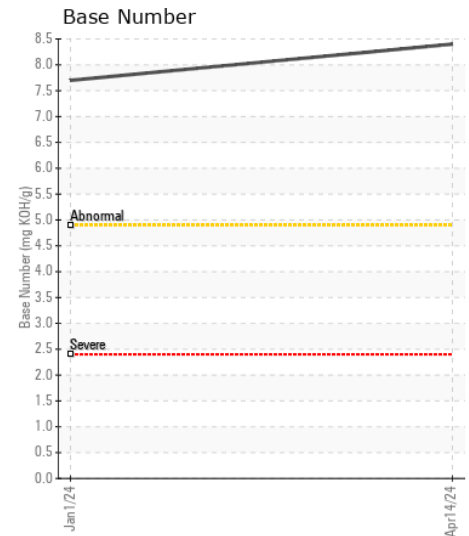
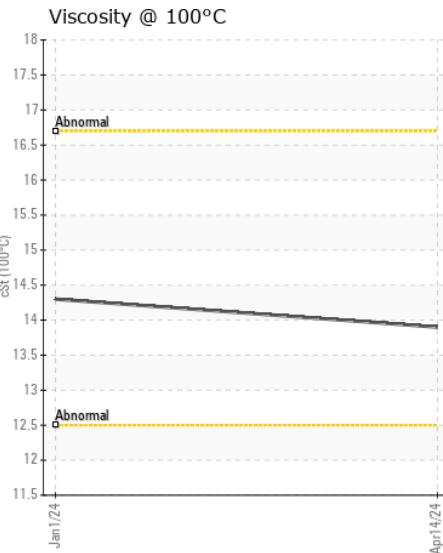
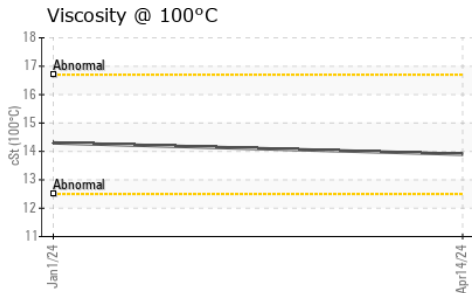
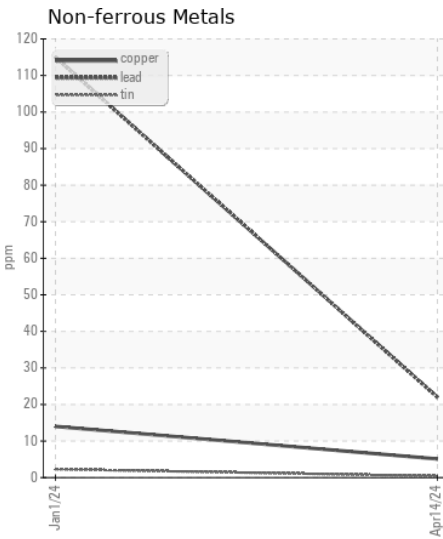
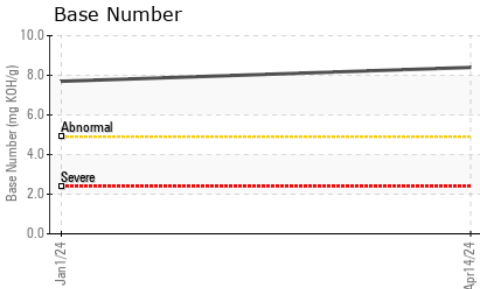
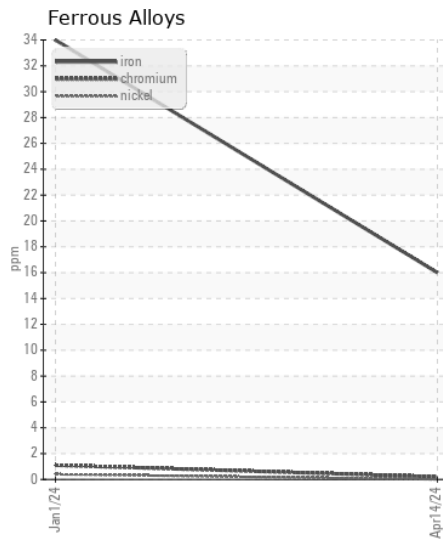
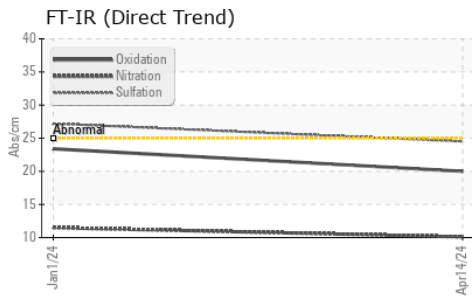
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m	>22	7	9	---
Potassium	ppm	ASTM D5185m	>20	4	2	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	0.8	---
Nitration	Abs/cm	*ASTM D7624	>20	10.1	11.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	27.2	---
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	>0.21	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	>31	1	4	---
Boron	ppm	ASTM D5185m		153	69	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		244	237	---
Manganese	ppm	ASTM D5185m		0	2	---
Magnesium	ppm	ASTM D5185m		750	806	---
Calcium	ppm	ASTM D5185m		1648	1666	---
Phosphorus	ppm	ASTM D5185m		1044	984	---
Zinc	ppm	ASTM D5185m		1192	1242	---
Sulfur	ppm	ASTM D5185m		3141	3058	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	23.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	7.7	---
Visc @ 100°C	cSt	ASTM D445		13.9	14.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212966 **Received** : 17 Apr 2024
Lab Number : 06151743 **Tested** : 18 Apr 2024
Unique Number : 10981821 **Diagnosed** : 19 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: TBN)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

Contact: RALEIGH SHOP
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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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