



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 650P 1T0650PAVPLX02650
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0179250	JR0179826	---
Sample Date		Client Info		11 Apr 2024	09 Nov 2023	---
Machine Age	hrs	Client Info		940	470	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	27	33	---
Chromium	ppm	ASTM D5185m	>11	1	1	---
Nickel	ppm	ASTM D5185m	>5	<1	2	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>31	5	7	---
Lead	ppm	ASTM D5185m	>26	3	4	---
Copper	ppm	ASTM D5185m	>26	55	▲ 171	---
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

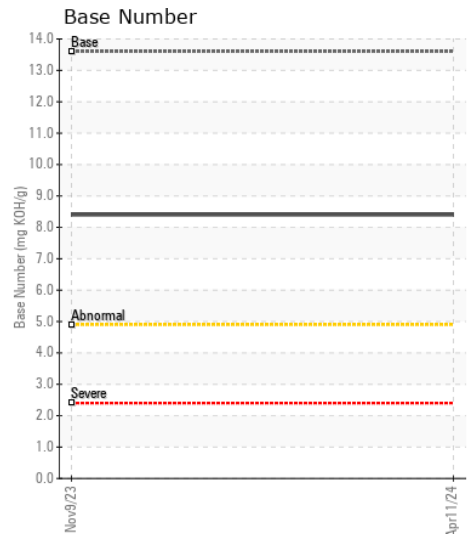
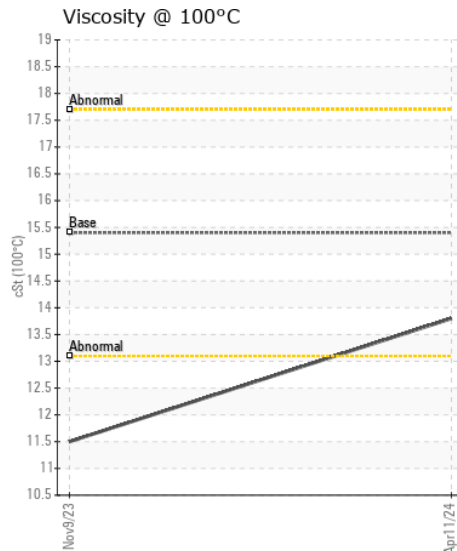
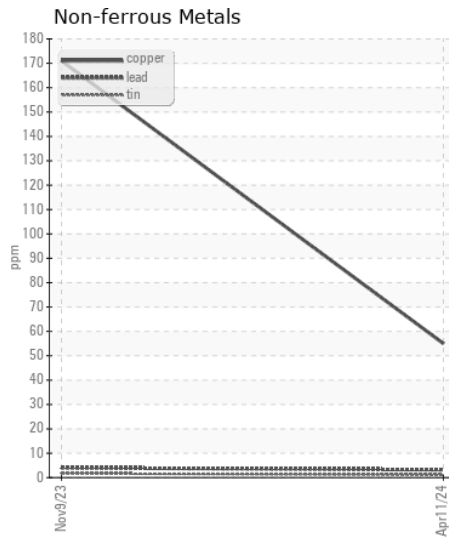
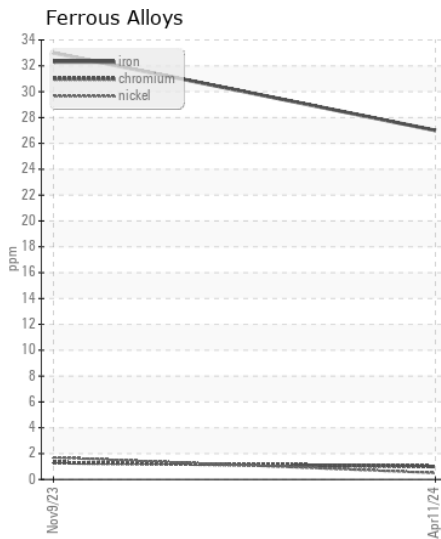
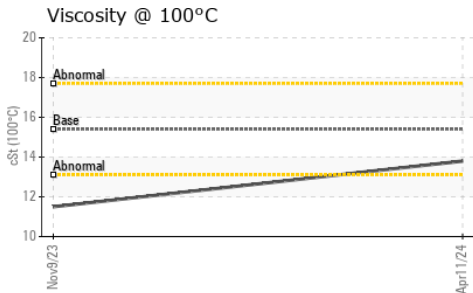
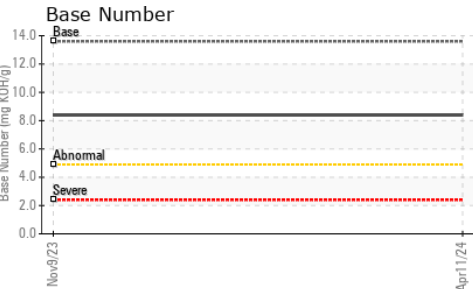
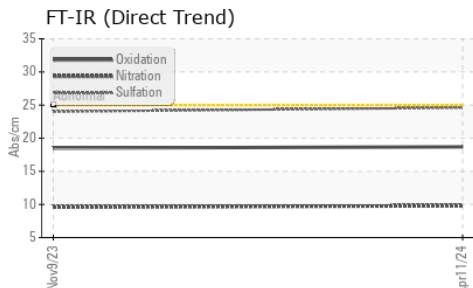
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	9	9	---
Potassium	ppm	ASTM D5185m	>20	3	3	---
Fuel		WC Method	>2.1	<1.0	0.4	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.8	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	24.0	---
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	2	5	---
Boron	ppm	ASTM D5185m		200	145	---
Barium	ppm	ASTM D5185m		2	3	---
Molybdenum	ppm	ASTM D5185m		273	222	---
Manganese	ppm	ASTM D5185m		1	4	---
Magnesium	ppm	ASTM D5185m		853	752	---
Calcium	ppm	ASTM D5185m		1523	1526	---
Phosphorus	ppm	ASTM D5185m		953	948	---
Zinc	ppm	ASTM D5185m		1129	1170	---
Sulfur	ppm	ASTM D5185m		3056	2938	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	18.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.4	8.4	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	● 11.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0179250 **Received** : 15 Apr 2024
Lab Number : 06148502 **Tested** : 16 Apr 2024
Unique Number : 10978580 **Diagnosed** : 16 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

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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)