



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1FF250PAPPF000110
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206322	JR0189121	---
Sample Date		Client Info		15 Apr 2024	07 Nov 2023	---
Machine Age	hrs	Client Info		1012	506	---
Oil Age	hrs	Client Info		506	506	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	44	45	---
Chromium	ppm	ASTM D5185m	>20	2	1	---
Nickel	ppm	ASTM D5185m	>4	9	8	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>20	7	4	---
Lead	ppm	ASTM D5185m	>40	5	7	---
Copper	ppm	ASTM D5185m	>330	52	261	---
Tin	ppm	ASTM D5185m	>15	3	3	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

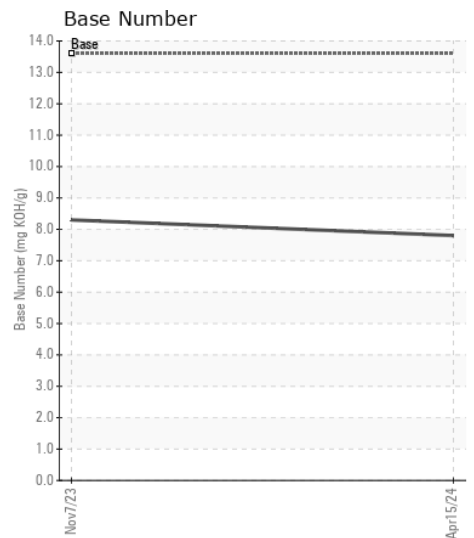
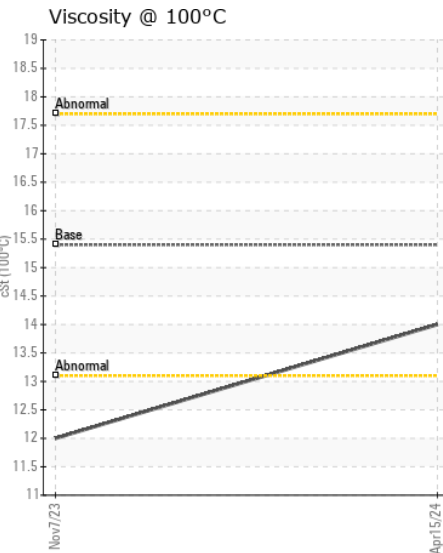
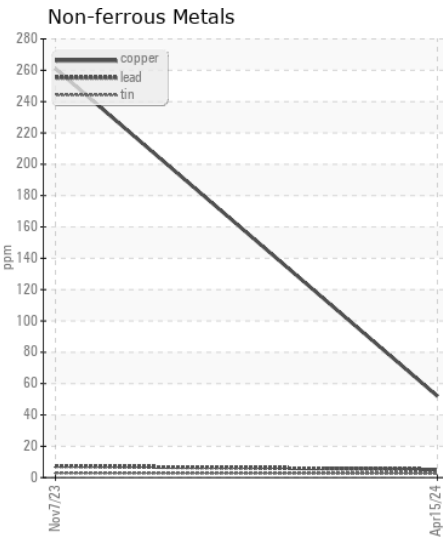
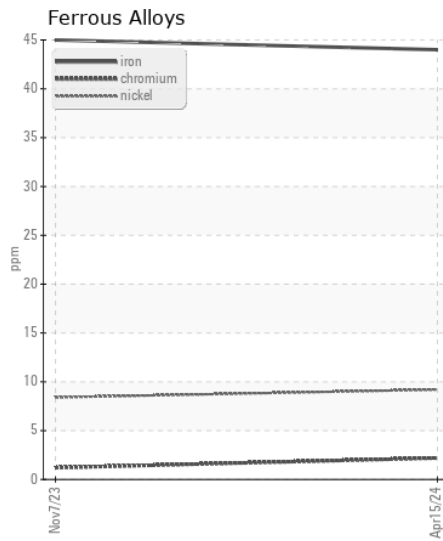
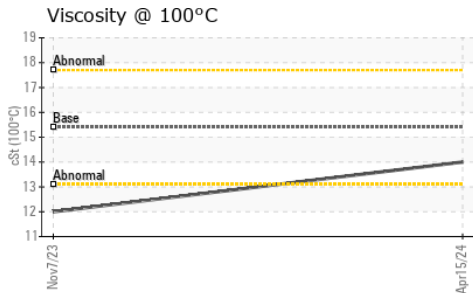
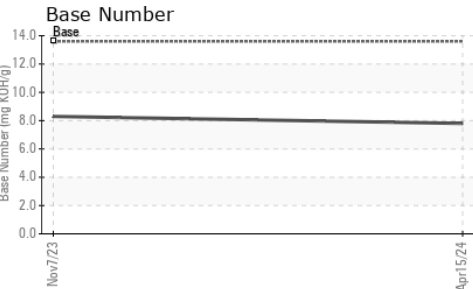
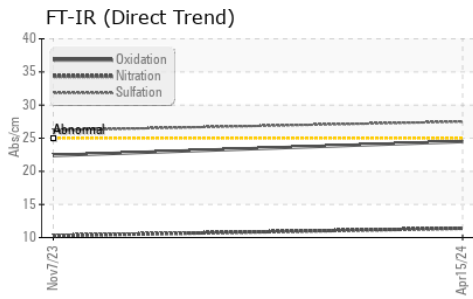
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	12	12	---
Potassium	ppm	ASTM D5185m	>20	3	1	---
Fuel		WC Method	>5	<1.0	0.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.6	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	11.4	10.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.5	26.2	---
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	>0.2	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		4	6	---
Boron	ppm	ASTM D5185m		113	185	---
Barium	ppm	ASTM D5185m		1	3	---
Molybdenum	ppm	ASTM D5185m		300	255	---
Manganese	ppm	ASTM D5185m		3	5	---
Magnesium	ppm	ASTM D5185m		911	873	---
Calcium	ppm	ASTM D5185m		1624	1611	---
Phosphorus	ppm	ASTM D5185m		1054	1035	---
Zinc	ppm	ASTM D5185m		1197	1314	---
Sulfur	ppm	ASTM D5185m		3106	3001	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.5	22.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.8	8.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	12.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0206322

Lab Number : 06152890

Unique Number : 10982968

Test Package : CONST (Additional Tests: TBN)

Received : 18 Apr 2024

Tested : 19 Apr 2024

Diagnosed : 19 Apr 2024 - Wes Davis

JRE - CHARLOTTE

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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)