



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 350P 1FF350PAHPF000686
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (30 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0211306	JR0199225	---
Sample Date		Client Info		18 Apr 2024	08 Jan 2024	---
Machine Age	hrs	Client Info		995	500	---
Oil Age	hrs	Client Info		495	0	---
Filter Age	hrs	Client Info		495	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ATTENTION	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	57	52	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	2	5	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>31	5	5	---
Lead	ppm	ASTM D5185m	>26	2	2	---
Copper	ppm	ASTM D5185m	>26	35	60	---
Tin	ppm	ASTM D5185m	>4	2	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

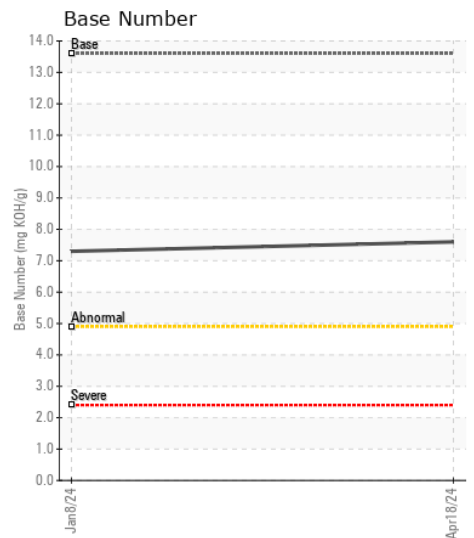
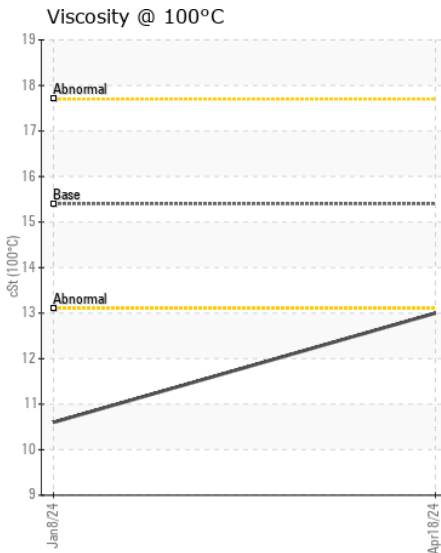
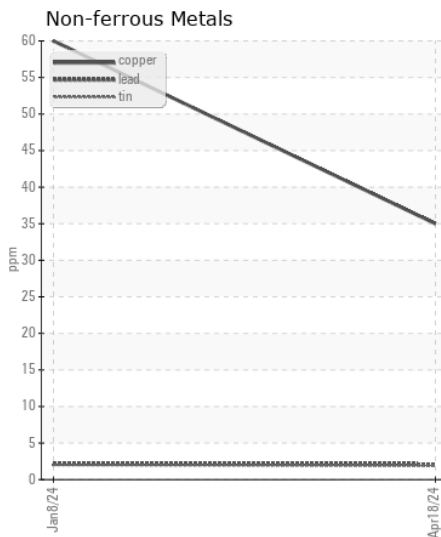
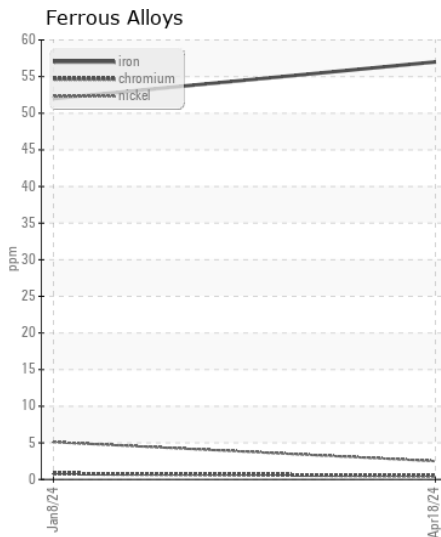
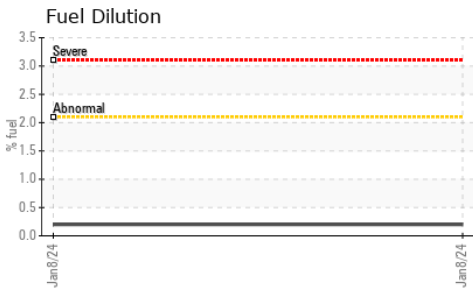
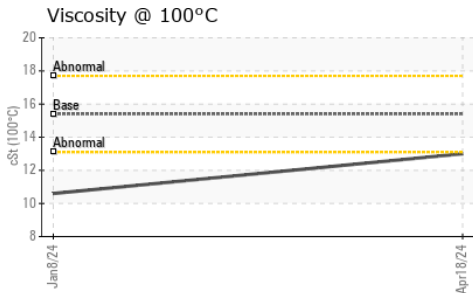
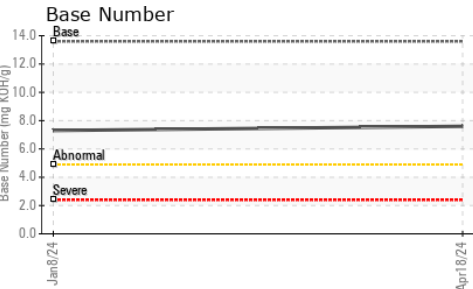
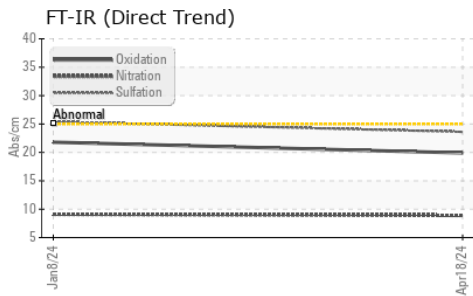
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	8	11	---
Potassium	ppm	ASTM D5185m	>20	0	9	---
Fuel	%	ASTM D3524	>2.1	<1.0	0.2	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	25.4	---
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	4	<1	---
Boron	ppm	ASTM D5185m		144	208	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		223	184	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m		810	674	---
Calcium	ppm	ASTM D5185m		1642	1261	---
Phosphorus	ppm	ASTM D5185m		832	984	---
Zinc	ppm	ASTM D5185m		1015	876	---
Sulfur	ppm	ASTM D5185m		3142	5012	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	21.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.6	7.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	10.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211306 **Received** : 19 Apr 2024
Lab Number : 06154145 **Tested** : 23 Apr 2024
Unique Number : 10989568 **Diagnosed** : 23 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, TBN)

B & S SITE DEVELOPMENT
 7800 PINEY BRANCH LANE
 BRISTOW, VA
 US 20136

Contact: DANNY HUFF
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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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