



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
JOHN DEERE 350P 1FF350PAENF000413

Component
Diesel Engine

Fluid
{not provided} (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212374	JR0190580	---
Sample Date		Client Info		18 Apr 2024	10 Nov 2023	---
Machine Age	hrs	Client Info		1457	560	---
Oil Age	hrs	Client Info		897	560	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>51	▲ 101	48	---
Chromium	ppm	ASTM D5185m	>11	2	<1	---
Nickel	ppm	ASTM D5185m	>5	13	12	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>31	7	4	---
Lead	ppm	ASTM D5185m	>26	10	3	---
Copper	ppm	ASTM D5185m	>26	▲ 109	▲ 128	---
Tin	ppm	ASTM D5185m	>4	4	3	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

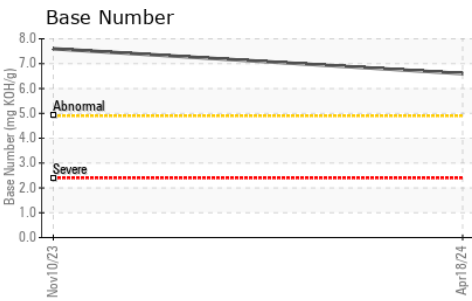
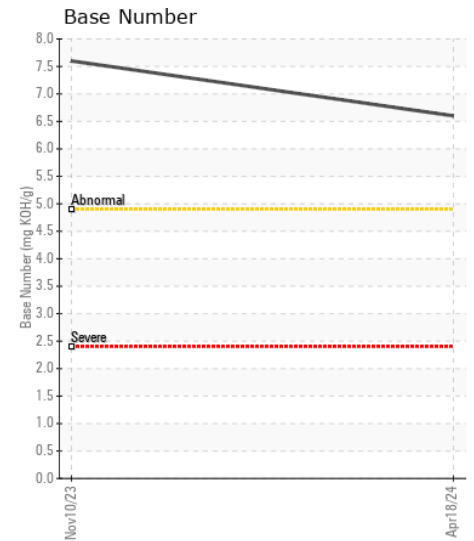
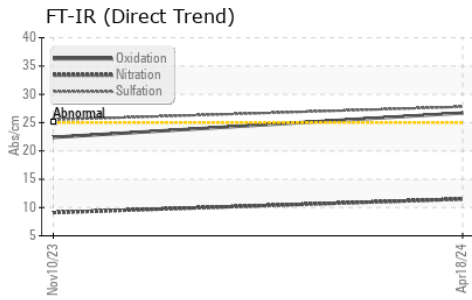
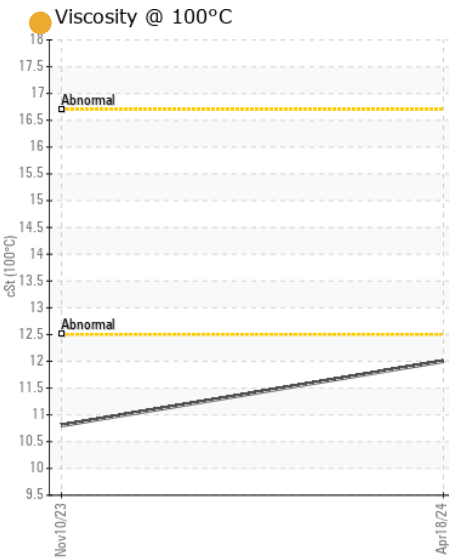
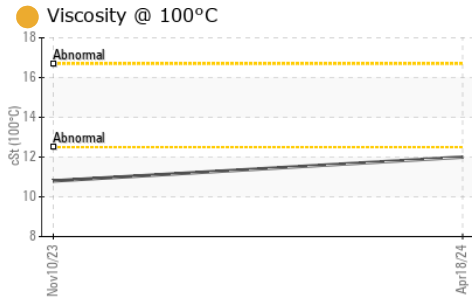
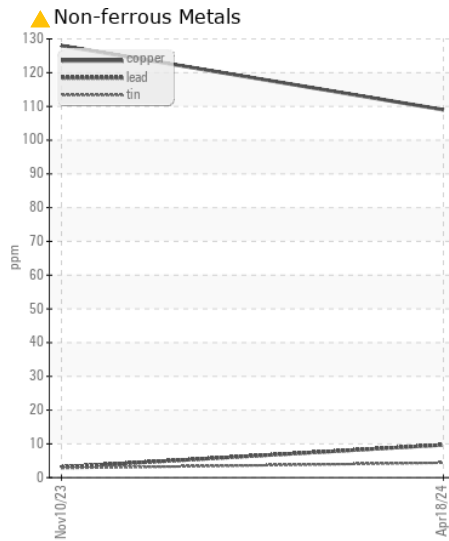
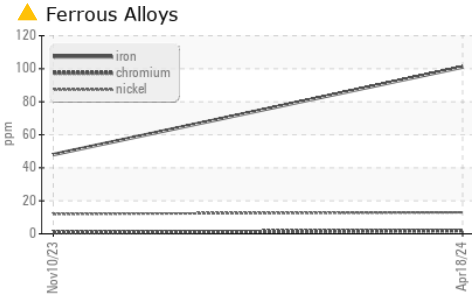
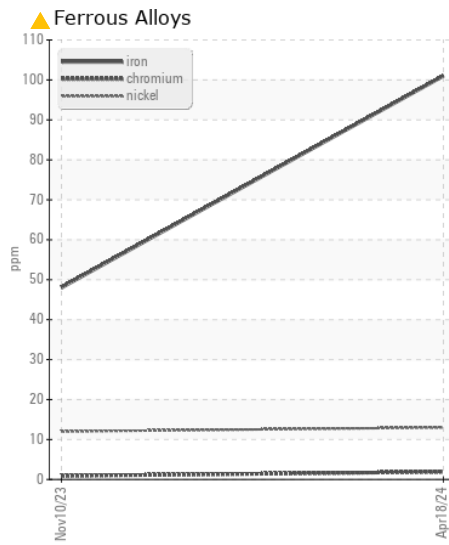
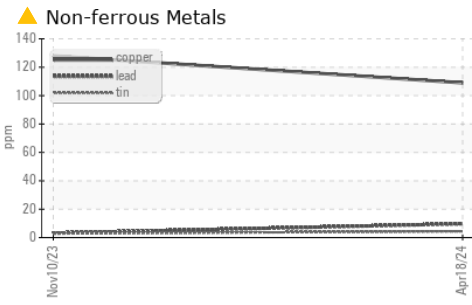
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	12	12	---
Potassium	ppm	ASTM D5185m	>20	3	6	---
Fuel	%	ASTM D3524	>2.1	<1.0	0.3	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.8	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	11.5	9.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.8	25.5	---
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>31	6	5	---
Boron	ppm	ASTM D5185m		30	166	---
Barium	ppm	ASTM D5185m		1	0	---
Molybdenum	ppm	ASTM D5185m		194	224	---
Manganese	ppm	ASTM D5185m		2	2	---
Magnesium	ppm	ASTM D5185m		689	801	---
Calcium	ppm	ASTM D5185m		1748	1429	---
Phosphorus	ppm	ASTM D5185m		901	855	---
Zinc	ppm	ASTM D5185m		1078	1075	---
Sulfur	ppm	ASTM D5185m		3100	2630	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.7	22.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.6	7.6	---
Visc @ 100°C	cSt	ASTM D445		● 12.0	10.8	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212374 **Received** : 19 Apr 2024
Lab Number : 06154177 **Tested** : 23 Apr 2024
Unique Number : 10989600 **Diagnosed** : 23 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, TBN)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529
 Contact: RALEIGH SHOP

Certificate L2367
 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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