



WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[05W45993]
 Machine Id
JOHN DEERE 1FF350PALNF000201
 Component
Left Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (10 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

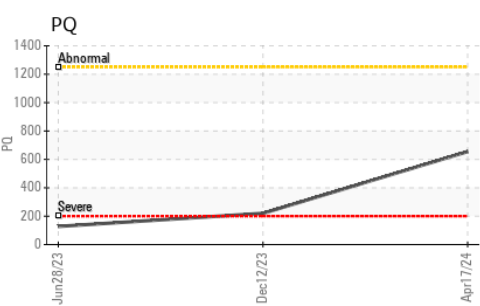
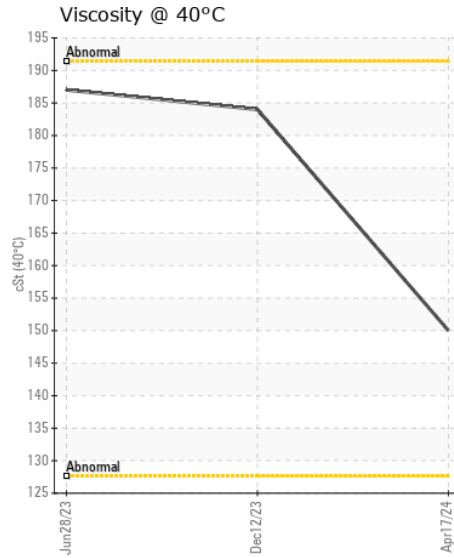
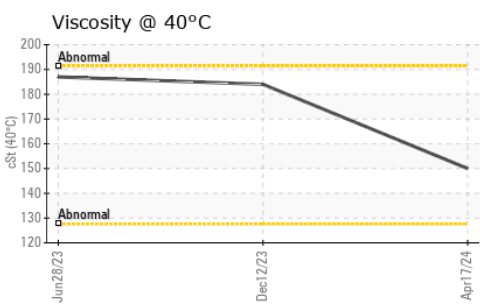
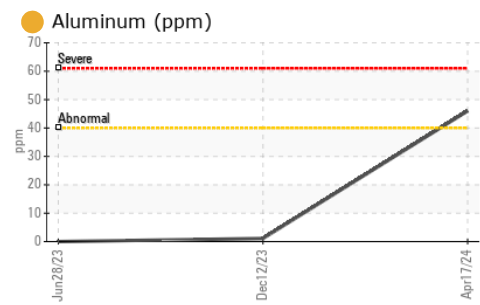
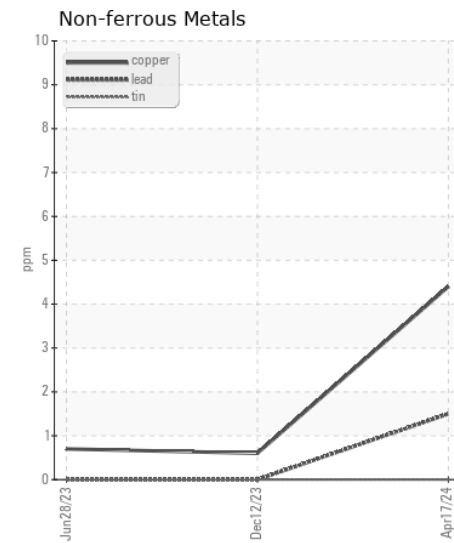
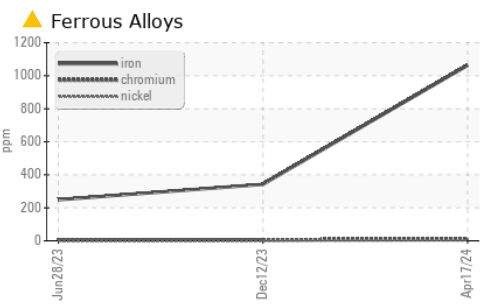
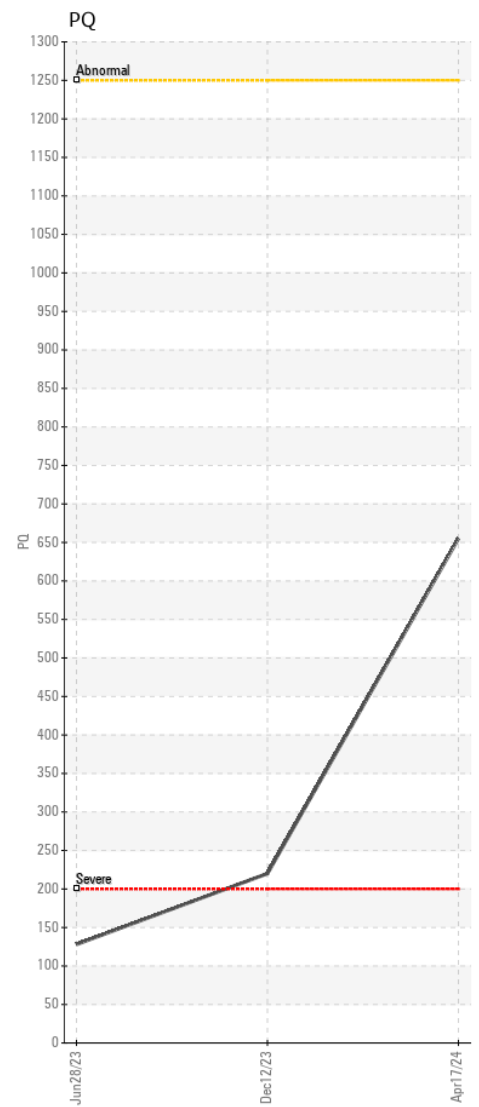
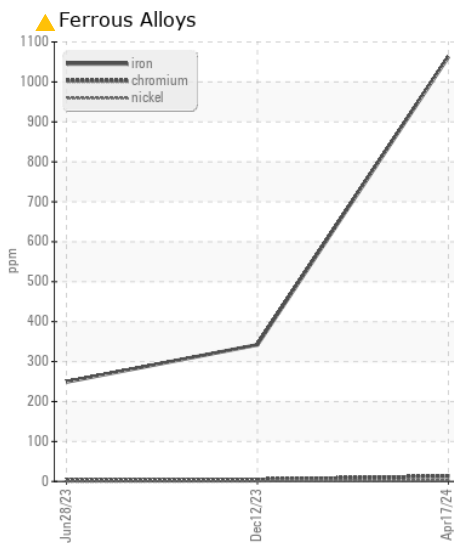
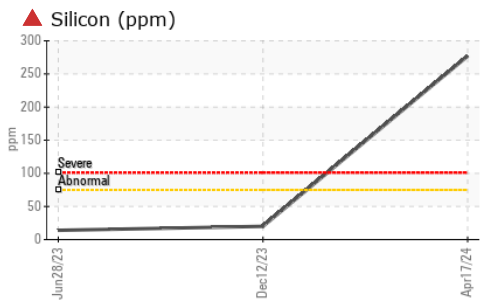
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0210929	JR0195819	JR0169762
Sample Date		Client Info		17 Apr 2024	12 Dec 2023	28 Jun 2023
Machine Age	hrs	Client Info		1440	962	484
Oil Age	hrs	Client Info		478	962	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	None	N/A
Sample Status				SEVERE	NORMAL	NORMAL
PQ		ASTM D8184	>1250	655	220	128
Iron	ppm	ASTM D5185m	>750	▲ 1063	342	249
Chromium	ppm	ASTM D5185m	>9	▲ 13	5	4
Nickel	ppm	ASTM D5185m	>10	3	<1	0
Titanium	ppm	ASTM D5185m		6	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 46	1	0
Lead	ppm	ASTM D5185m	>15	2	0	0
Copper	ppm	ASTM D5185m	>40	4	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 277	20	14
Potassium	ppm	ASTM D5185m	>20	12	2	<1
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	3	0	<1
Boron	ppm	ASTM D5185m		21	81	87
Barium	ppm	ASTM D5185m		3	0	2
Molybdenum	ppm	ASTM D5185m		1	0	0
Manganese	ppm	ASTM D5185m		14	6	5
Magnesium	ppm	ASTM D5185m		10	<1	0
Calcium	ppm	ASTM D5185m		118	22	21
Phosphorus	ppm	ASTM D5185m		389	479	559
Zinc	ppm	ASTM D5185m		38	12	1
Sulfur	ppm	ASTM D5185m		19233	17661	19194
Visc @ 40°C	cSt	ASTM D445		150	184	187



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0210929 **Received** : 18 Apr 2024
Lab Number : 06153365 **Tested** : 19 Apr 2024
Unique Number : 10983443 **Diagnosed** : 22 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

FITZGERALD EXCAVATING
 PO BOX 2168
 WINCHESTER, VA
 US 22604
 Contact: Service Manager

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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