



WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL

Area
[05W45125]
Machine Id
JOHN DEERE 1FF300GXALF731581
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. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

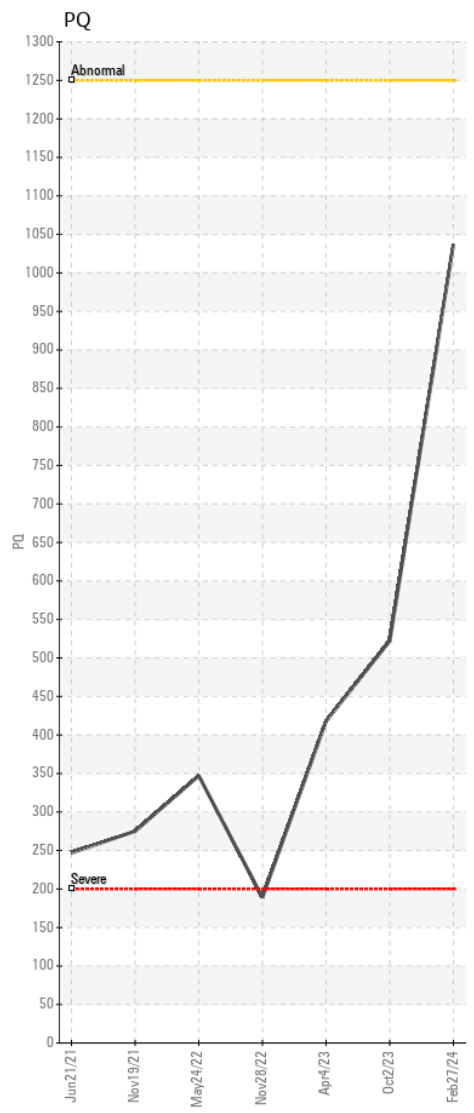
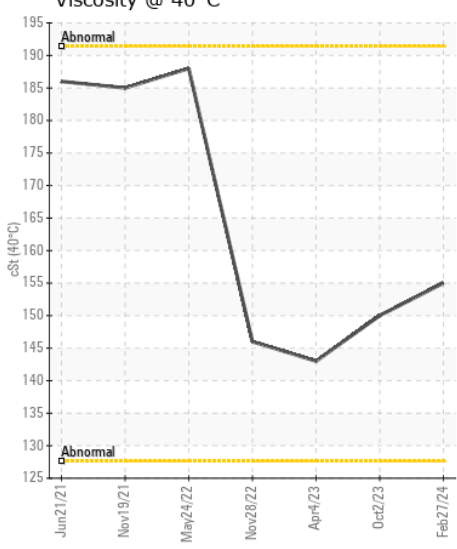
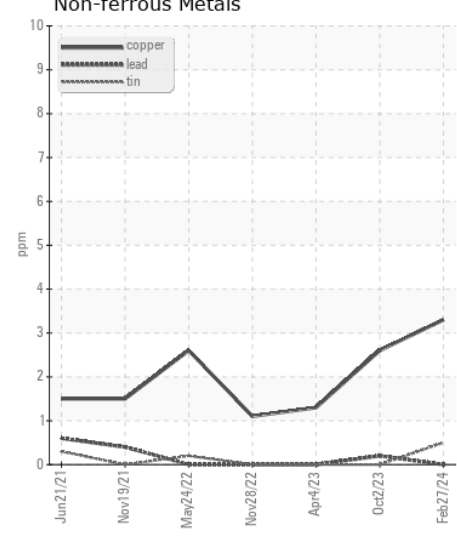
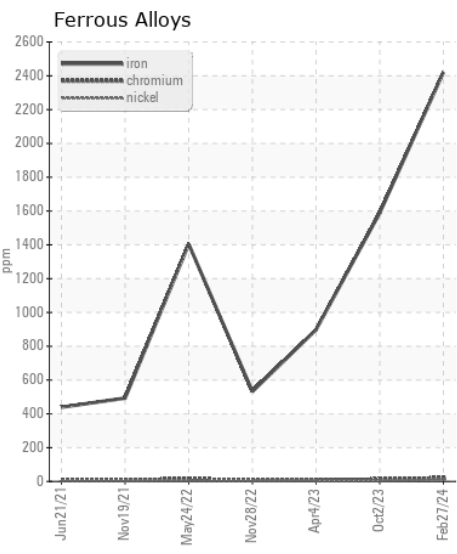
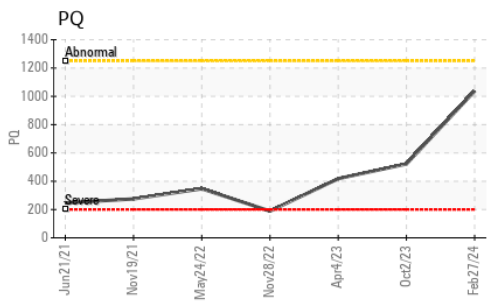
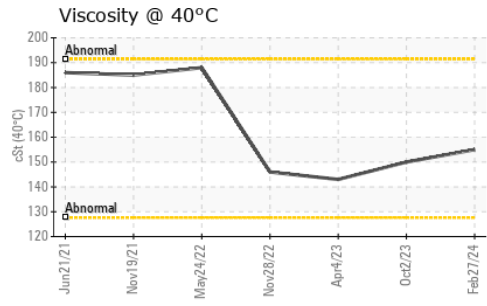
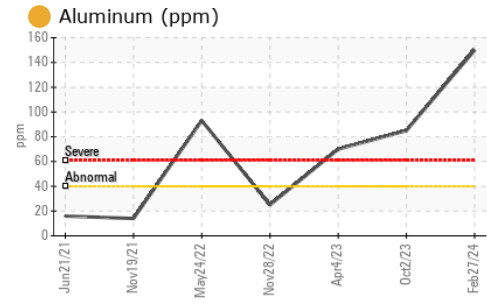
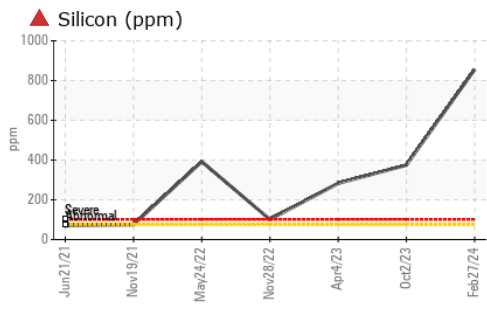
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0208526	JR0187654	JR0166711
Sample Date		Client Info		27 Feb 2024	02 Oct 2023	04 Apr 2023
Machine Age	hrs	Client Info		3963	3458	2951
Oil Age	hrs	Client Info		2000	1510	2471
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL

PQ		ASTM D8184	>1250	1037	522	418
Iron	ppm	ASTM D5185m	>750	2420	1589	898
Chromium	ppm	ASTM D5185m	>9	21	13	8
Nickel	ppm	ASTM D5185m	>10	10	5	3
Titanium	ppm	ASTM D5185m		24	10	8
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	150	85	70
Lead	ppm	ASTM D5185m	>15	0	<1	0
Copper	ppm	ASTM D5185m	>40	3	3	1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	855	375	283
Potassium	ppm	ASTM D5185m	>20	50	34	19
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	6	4	3
Boron	ppm	ASTM D5185m		18	19	10
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		20	13	8
Magnesium	ppm	ASTM D5185m		6	5	5
Calcium	ppm	ASTM D5185m		19	13	27
Phosphorus	ppm	ASTM D5185m		337	338	368
Zinc	ppm	ASTM D5185m		14	15	6
Sulfur	ppm	ASTM D5185m		17248	20112	20378
Visc @ 40°C	cSt	ASTM D445		155	150	143



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0208526 **Received** : 28 Feb 2024
Lab Number : 06103218 **Tested** : 01 Mar 2024
Unique Number : 10901448 **Diagnosed** : 01 Mar 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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