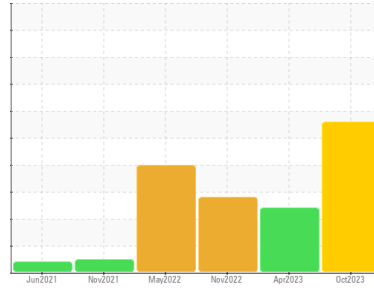


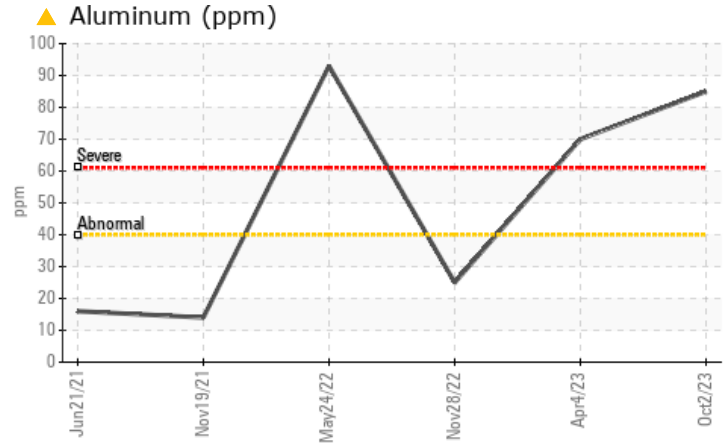
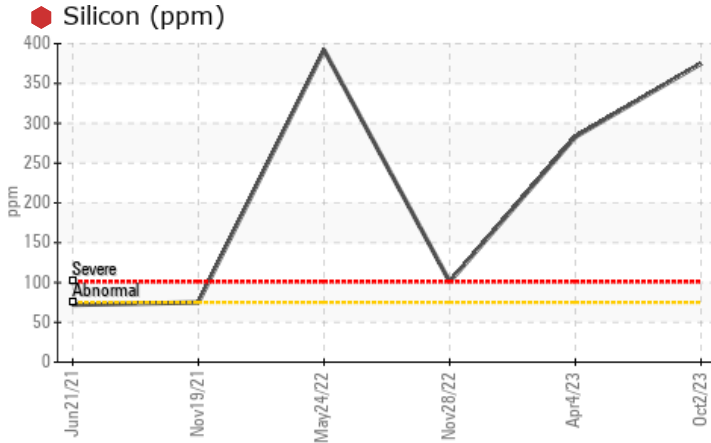
PROBLEM SUMMARY

Area
[05W42780]
 Machine Id
JOHN DEERE 1FF300GXALF731581
 Component
Left Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- QTS)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



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.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
Aluminum	ppm	ASTM D5185m	>40	▲ 85	▲ 70	▲ 25
Silicon	ppm	ASTM D5185m	>75	● 375	▲ 283	▲ 101

Customer Id: FITWINVA
 Sample No.: JR0187654
 Lab Number: 05968427
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

04 Apr 2023 Diag: Don Baldrige

DIRT



We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

view report



28 Nov 2022 Diag: Don Baldrige

DIRT



We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

view report



24 May 2022 Diag: Don Baldrige

DIRT

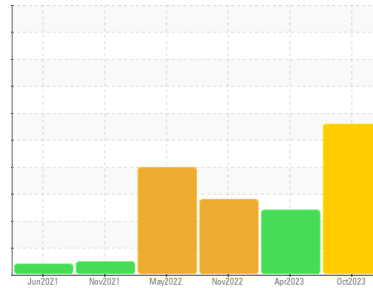


We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. All other metal levels are typical for a new component breaking in. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend

DIRT


Area
[05W42780]
Machine Id
JOHN DEERE 1FF300GXALF731581
Component
Left Final Drive
Fluid
JOHN DEERE GL-5 80W90 (--- QTS)

DIAGNOSIS
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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JR0187654	JR0166711	JR0153526
Sample Date	Client Info		02 Oct 2023	04 Apr 2023	28 Nov 2022
Machine Age	hrs	Client Info	3458	2951	2483
Oil Age	hrs	Client Info	1510	2471	2483
Oil Changed	Client Info		Not Chngd	Not Chngd	N/A
Sample Status			SEVERE	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184	>1250	522	418	189
Iron	ppm	ASTM D5185m	>750	1589	898
Chromium	ppm	ASTM D5185m	>9	13	8
Nickel	ppm	ASTM D5185m	>10	5	3
Titanium	ppm	ASTM D5185m		10	8
Silver	ppm	ASTM D5185m		0	0
Aluminum	ppm	ASTM D5185m	>40	85	70
Lead	ppm	ASTM D5185m	>15	<1	0
Copper	ppm	ASTM D5185m	>40	3	1
Tin	ppm	ASTM D5185m	>10	0	0
Vanadium	ppm	ASTM D5185m		<1	<1
Cadmium	ppm	ASTM D5185m		<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		19	10
Barium	ppm	ASTM D5185m		0	0
Molybdenum	ppm	ASTM D5185m		<1	0
Manganese	ppm	ASTM D5185m		13	8
Magnesium	ppm	ASTM D5185m		5	5
Calcium	ppm	ASTM D5185m		13	27
Phosphorus	ppm	ASTM D5185m		338	368
Zinc	ppm	ASTM D5185m		15	6
Sulfur	ppm	ASTM D5185m		20112	20378

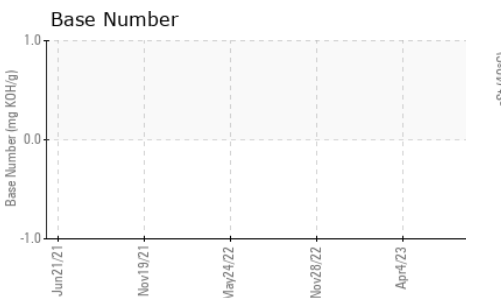
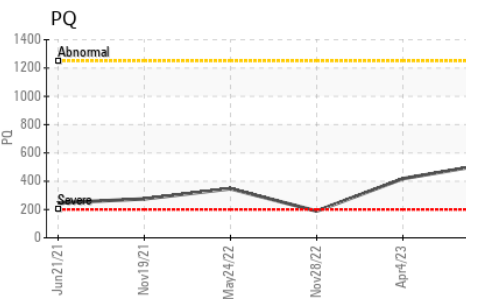
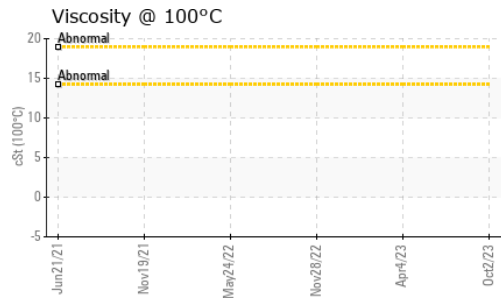
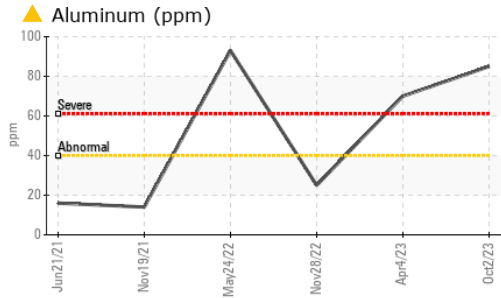
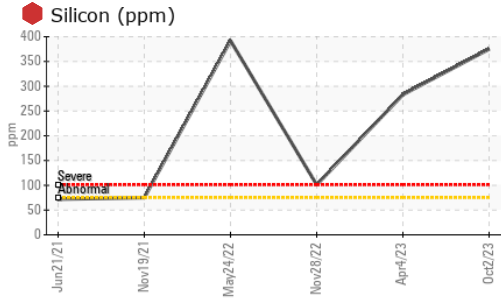
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	375	283
Sodium	ppm	ASTM D5185m	>51	4	3
Potassium	ppm	ASTM D5185m	>20	34	19

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

OIL ANALYSIS REPORT

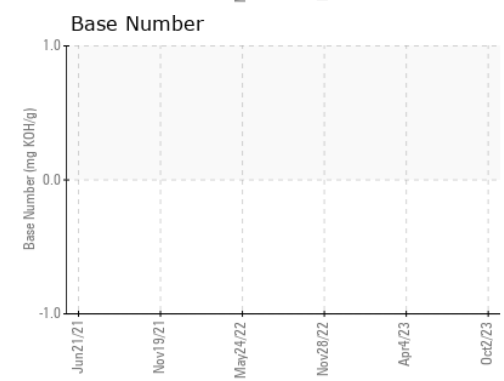
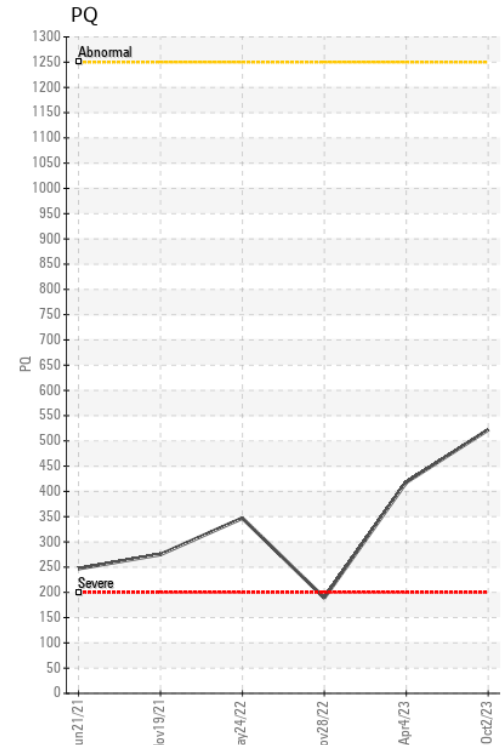
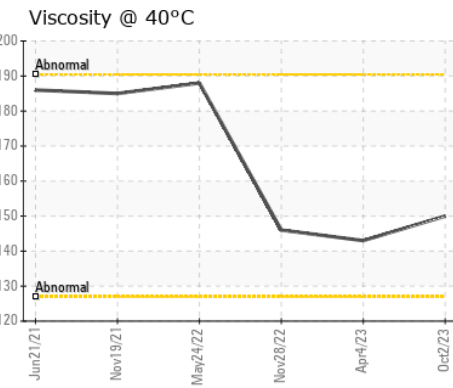
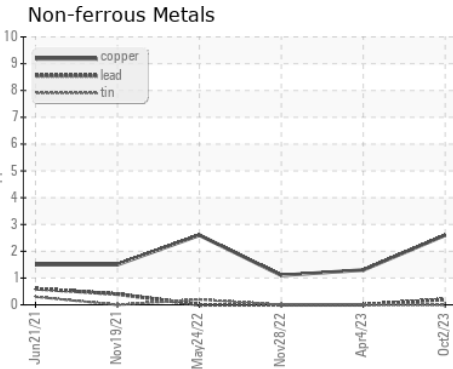
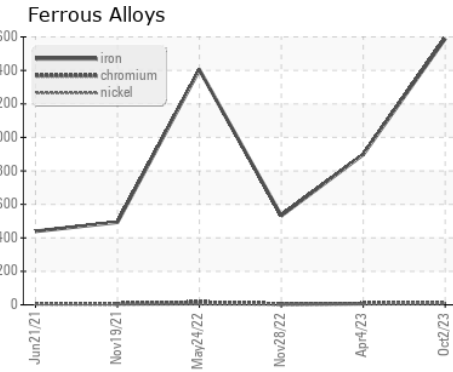


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		150	143	146

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0187654 **Received** : 03 Oct 2023
Lab Number : **05968427** **Diagnosed** : 04 Oct 2023
Unique Number : 10674978 **Diagnostician** : Doug Bogart
Test Package : CONST (Additional Tests: FT-IR, KV100, PQ, TBN)

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

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)

T:
F: