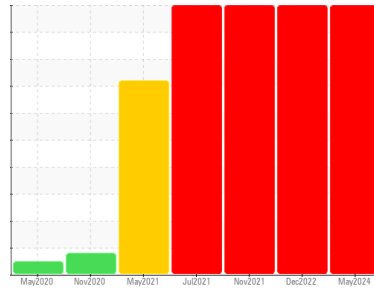


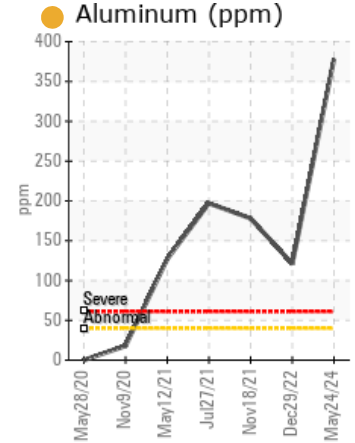
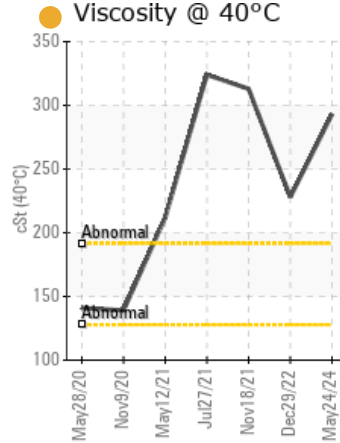
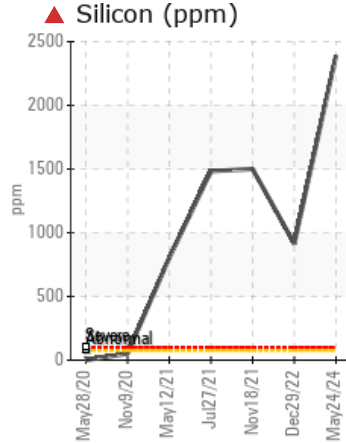
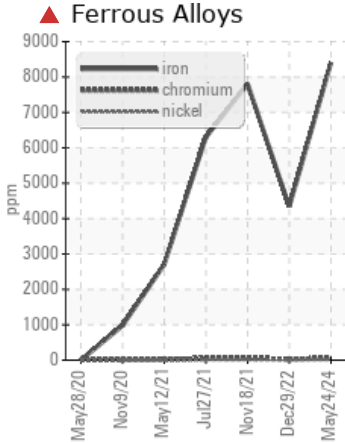
PROBLEM SUMMARY

Machine Id
JOHN DEERE 1FF350GXCHF812280
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	SEVERE	SEVERE	
Iron	ppm	ASTM D5185m	>750	▲ 8407	▲ 4341	▲ 7808
Chromium	ppm	ASTM D5185m	>9	▲ 59	▲ 27	▲ 64
Silicon	ppm	ASTM D5185m	>75	▲ 2390	▲ 915	▲ 1500

Customer Id: FITWINVA
 Sample No.: JR0195429
 Lab Number: 06196039
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
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

WEAR



29 Dec 2022 Diag: Don Baldrige

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

view report



WEAR



18 Nov 2021 Diag: Don Baldrige

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

view report



WEAR



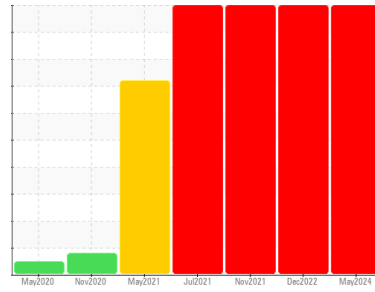
27 Jul 2021 Diag: Jonathan Hester

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

view report



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR


Machine Id
JOHN DEERE 1FF350GXCHF812280
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

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 advise that you inspect for the source(s) of wear. 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 viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			JR0195429	JR0154257	JR0106332
Sample Date	Client Info			24 May 2024	29 Dec 2022	18 Nov 2021
Machine Age	hrs	Client Info		6316	4991	3973
Oil Age	hrs	Client Info		0	4991	0
Oil Changed	Client Info			Changed	Not Changd	Changed
Sample Status				SEVERE	SEVERE	SEVERE

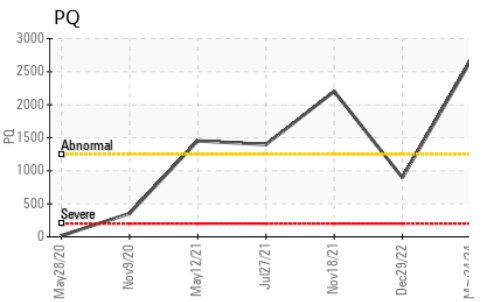
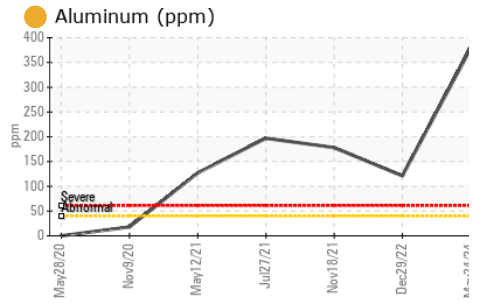
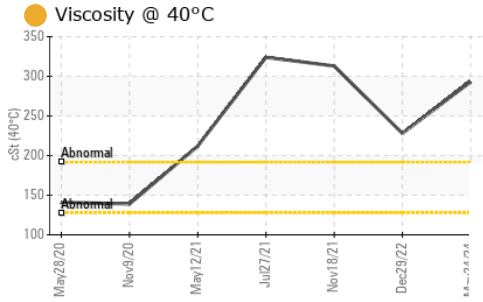
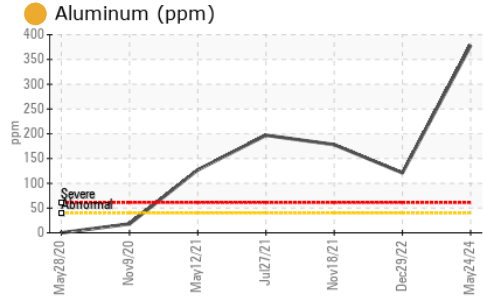
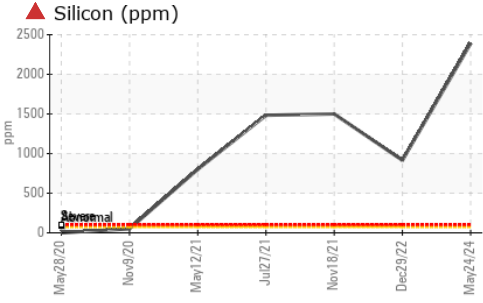
CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.075	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>1250	2661	896	2202
Iron	ppm	ASTM D5185m	>750	▲ 8407	▲ 4341	▲ 7808
Chromium	ppm	ASTM D5185m	>9	▲ 59	▲ 27	▲ 64
Nickel	ppm	ASTM D5185m	>10	13	7	9
Titanium	ppm	ASTM D5185m		63	24	45
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 378	● 121	● 178
Lead	ppm	ASTM D5185m	>15	2	<1	1
Copper	ppm	ASTM D5185m	>40	16	8	16
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m	>5	---	---	0
Vanadium	ppm	ASTM D5185m		3	1	2
Cadmium	ppm	ASTM D5185m		0	<1	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		54	49	58
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum	ppm	ASTM D5185m		6	3	6
Manganese	ppm	ASTM D5185m		65	28	55
Magnesium	ppm	ASTM D5185m		39	10	12
Calcium	ppm	ASTM D5185m		77	15	39
Phosphorus	ppm	ASTM D5185m		432	439	306
Zinc	ppm	ASTM D5185m		16	0	23
Sulfur	ppm	ASTM D5185m		33225	25056	15227

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ 2390	▲ 915	▲ 1500
Sodium	ppm	ASTM D5185m	>51	21	5	9
Potassium	ppm	ASTM D5185m	>20	114	30	43

OIL ANALYSIS REPORT



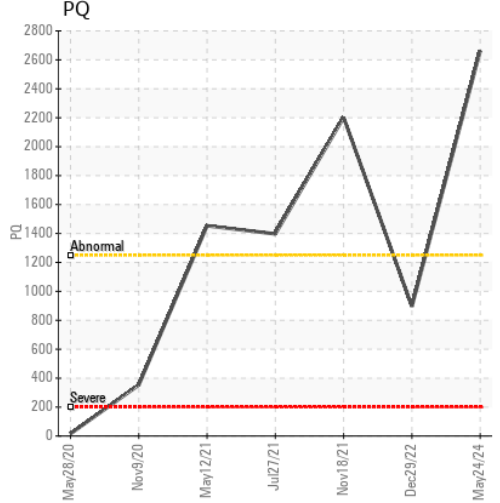
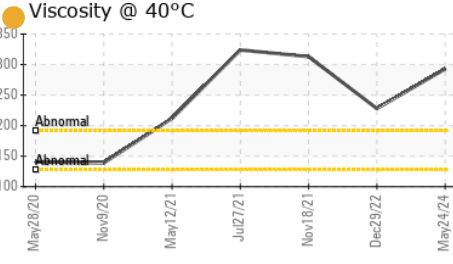
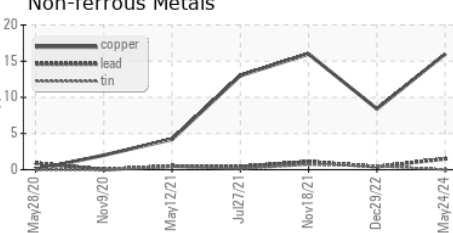
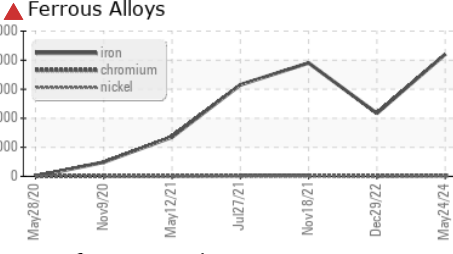
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	● 293	● 228	● 313

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			
Bottom			

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195429 **Received** : 30 May 2024
Lab Number : 06196039 **Tested** : 02 Jun 2024
Unique Number : 11058162 **Diagnosed** : 02 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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)