



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 1FF350GXPJF812880
 Component
Left Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (4 GAL)

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

WEAR

Gear wear is indicated.

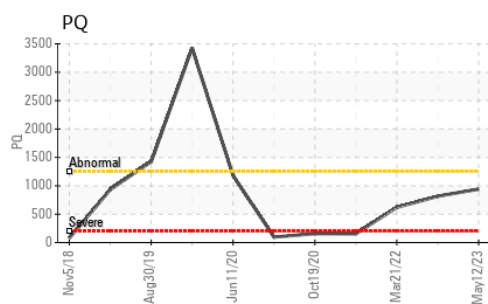
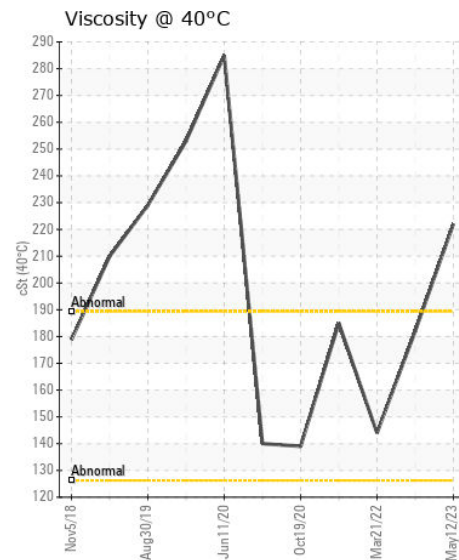
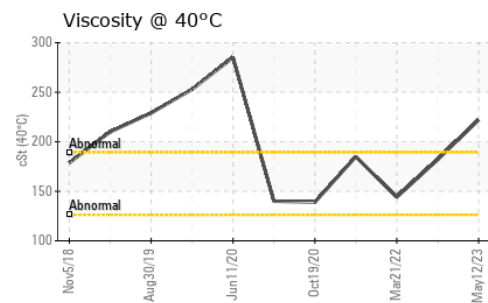
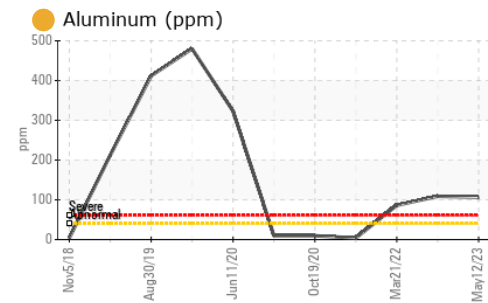
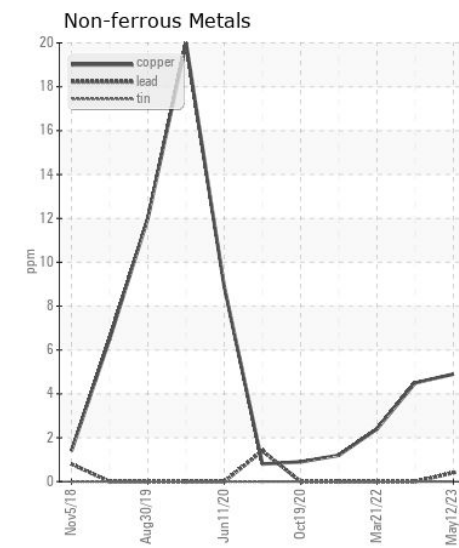
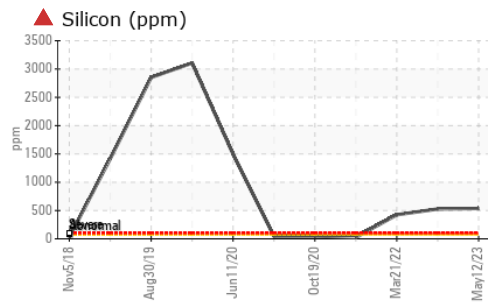
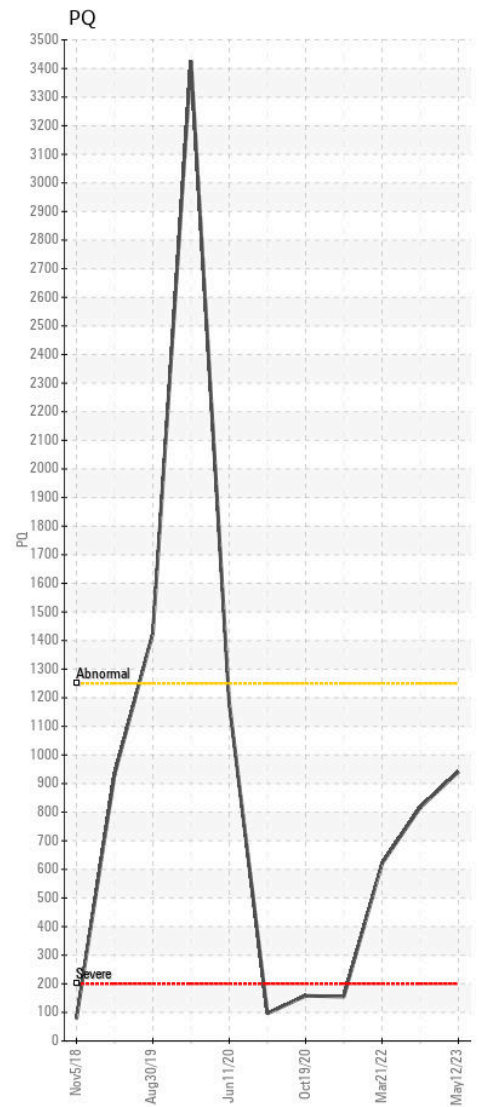
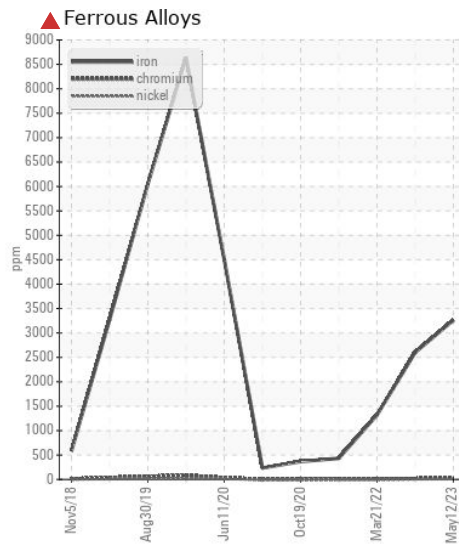
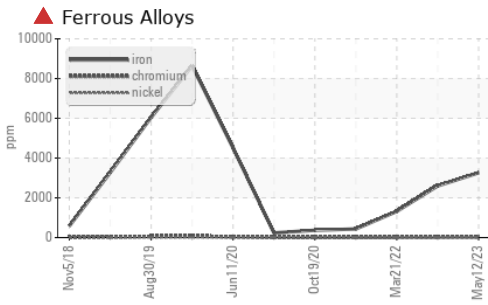
CONTAMINATION

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

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0172930	JR0132570	JR0122968
Sample Date		Client Info		12 May 2023	14 Oct 2022	21 Mar 2022
Machine Age	hrs	Client Info		5476	4967	4487
Oil Age	hrs	Client Info		0	4967	4487
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
PQ		ASTM D8184	>1250	941	816	620
Iron	ppm	ASTM D5185m	>750	▲ 3262	2601	▲ 1320
Chromium	ppm	ASTM D5185m	>9	▲ 21	17	8
Nickel	ppm	ASTM D5185m	>10	5	2	0
Titanium	ppm	ASTM D5185m		10	11	8
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 106	● 109	● 86
Lead	ppm	ASTM D5185m	>15	<1	0	0
Copper	ppm	ASTM D5185m	>40	5	4	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	MODER	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 536	▲ 527	▲ 425
Potassium	ppm	ASTM D5185m	>20	25	25	21
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	5	4	<1
Boron	ppm	ASTM D5185m		4	<1	3
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		2	2	1
Manganese	ppm	ASTM D5185m		20	16	9
Magnesium	ppm	ASTM D5185m		12	12	9
Calcium	ppm	ASTM D5185m		41	21	16
Phosphorus	ppm	ASTM D5185m		244	283	307
Zinc	ppm	ASTM D5185m		19	13	7
Sulfur	ppm	ASTM D5185m		18093	19978	15953
Visc @ 40°C	cSt	ASTM D445		222	182	144



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0172930 **Received** : 15 May 2023
Lab Number : 05847389 **Tested** : 17 May 2023
Unique Number : 10471496 **Diagnosed** : 17 May 2023 - 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)

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F: