



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 180G 1FF180GXAJF020850
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (6 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

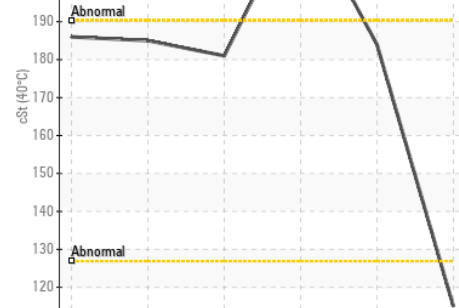
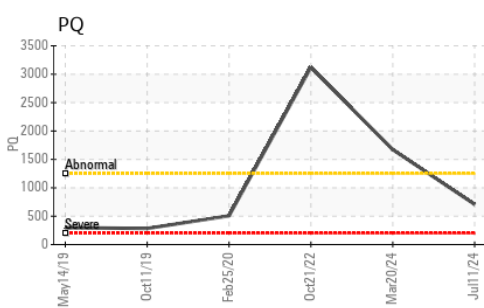
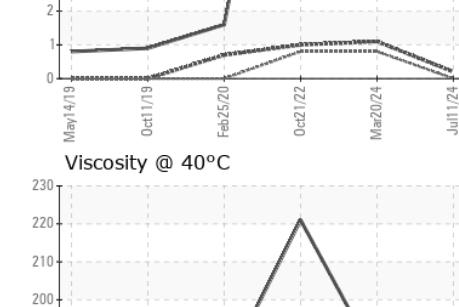
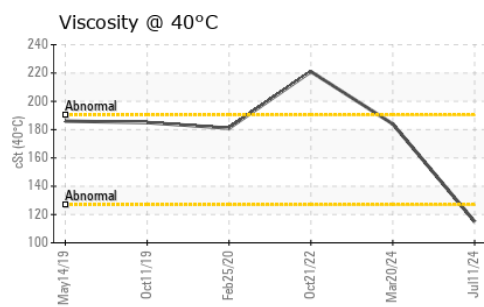
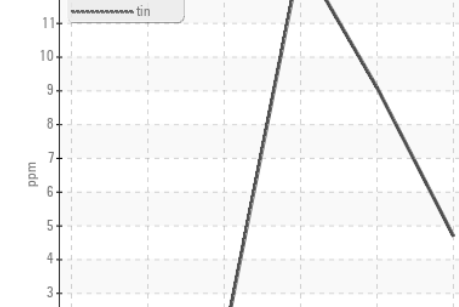
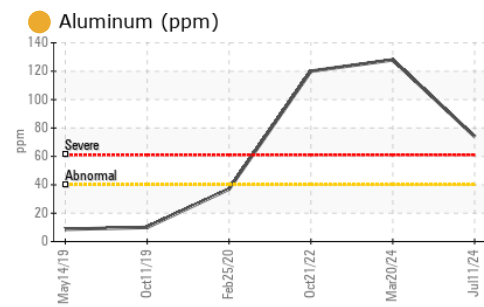
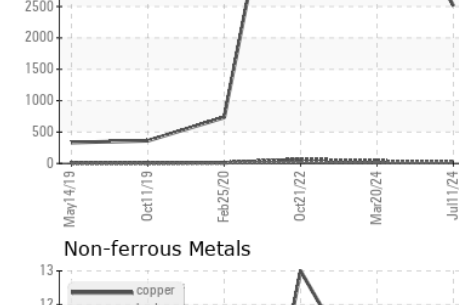
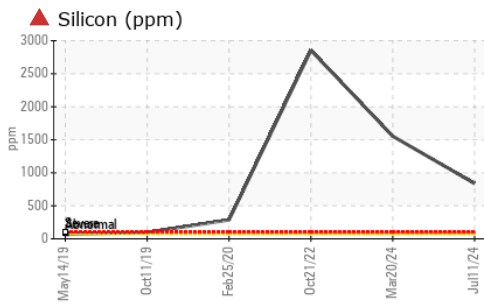
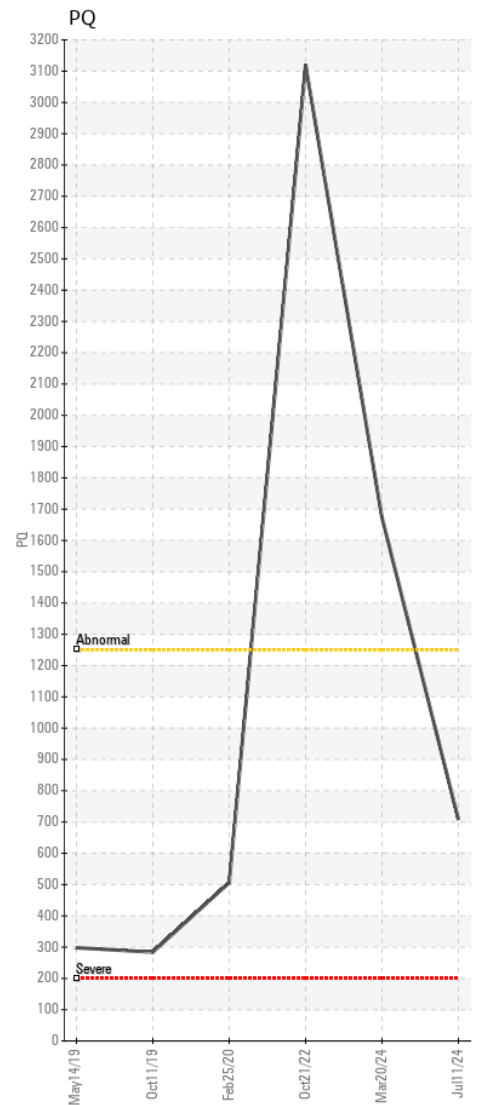
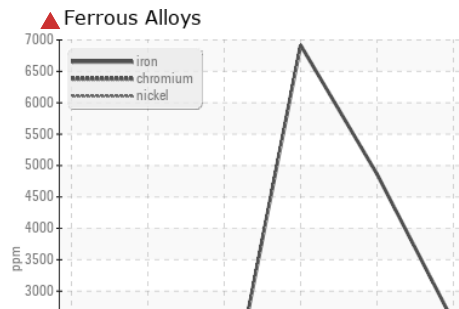
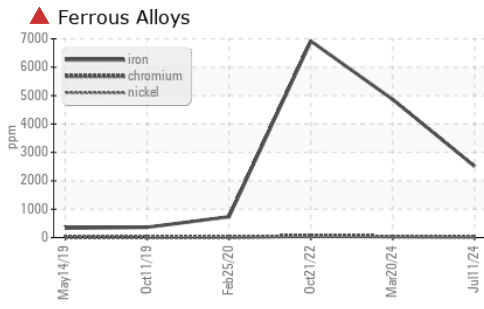
CONTAMINATION

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		JR0221048	JR0197103	JR0136173
Sample Date		Client Info		11 Jul 2024	20 Mar 2024	21 Oct 2022
Machine Age	hrs	Client Info		5514	5051	3963
Oil Age	hrs	Client Info		4109	1405	2000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	None	N/A
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	>1250	708	1673	3120
Iron	ppm	ASTM D5185m	>750	▲ 2510	▲ 4864	▲ 6918
Chromium	ppm	ASTM D5185m	>9	▲ 18	▲ 35	▲ 62
Nickel	ppm	ASTM D5185m	>10	7	▲ 12	▲ 19
Titanium	ppm	ASTM D5185m		10	21	49
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 74	● 128	● 120
Lead	ppm	ASTM D5185m	>15	<1	1	1
Copper	ppm	ASTM D5185m	>40	5	9	13
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	1	2
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 838	▲ 1554	▲ 2854
Potassium	ppm	ASTM D5185m	>20	11	22	45
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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	0	4	7
Boron	ppm	ASTM D5185m		15	21	66
Barium	ppm	ASTM D5185m		0	<1	6
Molybdenum	ppm	ASTM D5185m		2	6	6
Manganese	ppm	ASTM D5185m		17	36	58
Magnesium	ppm	ASTM D5185m		8	23	15
Calcium	ppm	ASTM D5185m		82	67	162
Phosphorus	ppm	ASTM D5185m		378	423	689
Zinc	ppm	ASTM D5185m		23	23	39
Sulfur	ppm	ASTM D5185m		12874	22802	45943
Visc @ 40°C	cSt	ASTM D445		115	184	221



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0221048 **Received** : 16 Jul 2024
Lab Number : 06238041 **Tested** : 17 Jul 2024
Unique Number : 11126875 **Diagnosed** : 18 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - NEW BERN
 3816 MARTIN LUTHER KING BLVD
 NEW BERN, NC
 US 28562
 Contact: NEW BERN SHOP

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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