



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
HITACHI 210-6 1ffdc571jmf341002
 Component
Left Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- 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.

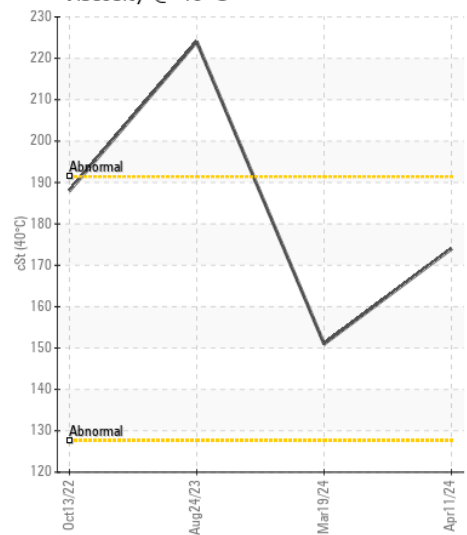
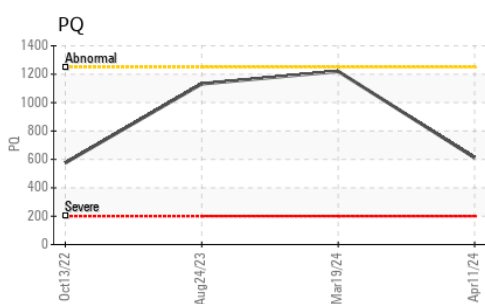
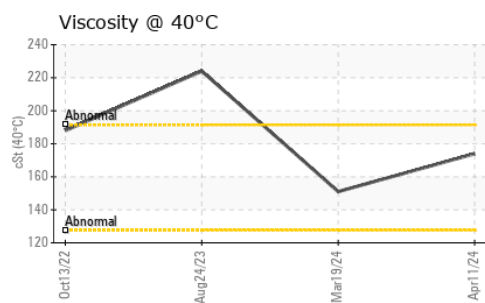
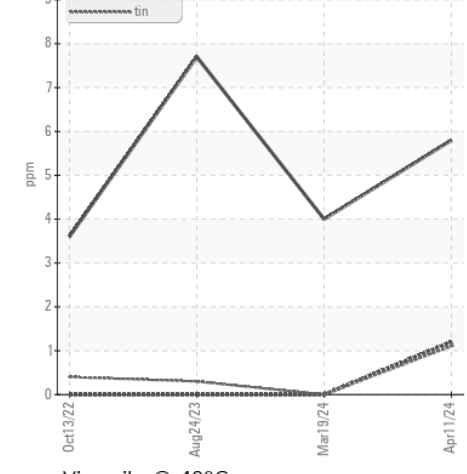
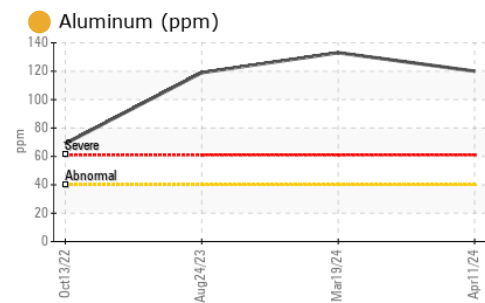
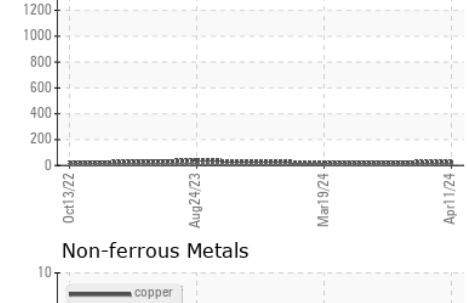
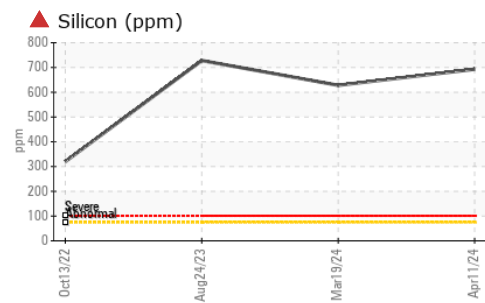
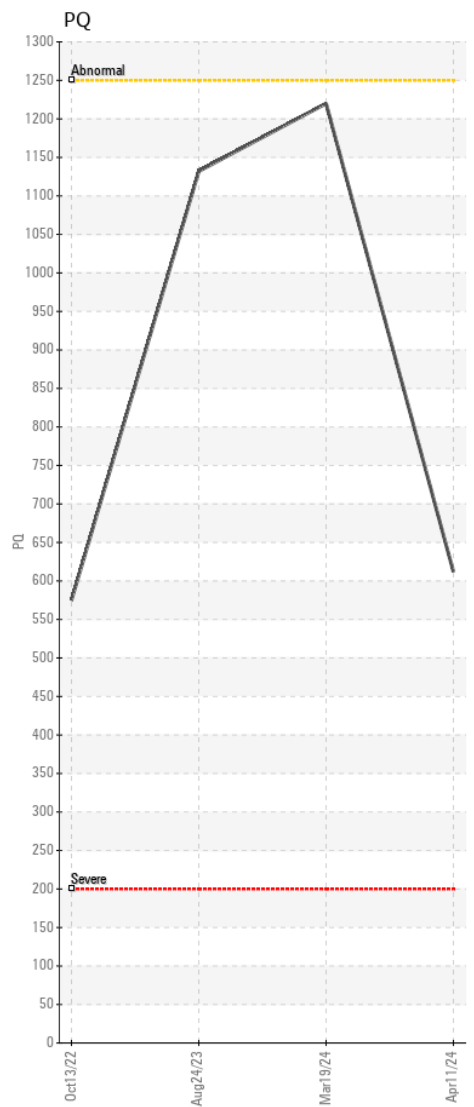
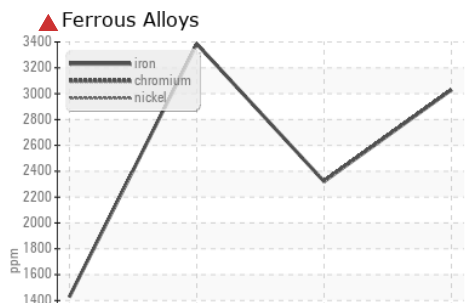
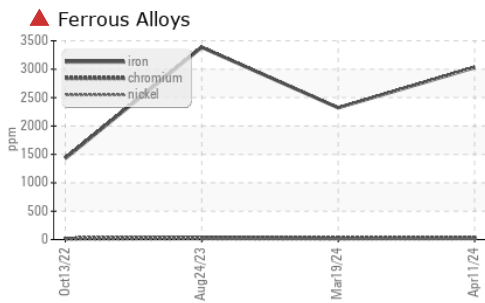
CONTAMINATION

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		JR0205128	JR0204981	JR0182605
Sample Date		Client Info		11 Apr 2024	19 Mar 2024	24 Aug 2023
Machine Age	hrs	Client Info		2925	2924	2007
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	>1250	612	1220	1132
Iron	ppm	ASTM D5185m	>750	▲ 3030	▲ 2321	▲ 3385
Chromium	ppm	ASTM D5185m	>9	▲ 27	▲ 21	▲ 38
Nickel	ppm	ASTM D5185m	>10	7	4	7
Titanium	ppm	ASTM D5185m		12	15	11
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 120	● 133	● 119
Lead	ppm	ASTM D5185m	>15	1	0	0
Copper	ppm	ASTM D5185m	>40	6	4	8
Tin	ppm	ASTM D5185m	>10	1	0	<1
Vanadium	ppm	ASTM D5185m		2	<1	2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 693	▲ 628	▲ 728
Potassium	ppm	ASTM D5185m	>20	27	13	38
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	15	10	20
Boron	ppm	ASTM D5185m		44	33	94
Barium	ppm	ASTM D5185m		3	2	5
Molybdenum	ppm	ASTM D5185m		10	<1	2
Manganese	ppm	ASTM D5185m		26	20	35
Magnesium	ppm	ASTM D5185m		45	17	11
Calcium	ppm	ASTM D5185m		51	23	50
Phosphorus	ppm	ASTM D5185m		700	589	550
Zinc	ppm	ASTM D5185m		48	14	51
Sulfur	ppm	ASTM D5185m		23030	21805	23951
Visc @ 40°C	cSt	ASTM D445		174	151	224



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0205128 **Received** : 12 Apr 2024
Lab Number : 06147589 **Tested** : 16 Apr 2024
Unique Number : 10977667 **Diagnosed** : 16 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - GREENSBORO
 411 SOUTH REGIONAL ROAD
 GREENSBORO, NC
 US 27409

Contact: JUSTIN WILLIAMS
 justin.williams@jamesriverequipment.com

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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