



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[W65387]
 Machine Id
HITACHI 210LC-5 1FFDCJ70TEE330472
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (2 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. (Customer Sample Comment: W65387)

WEAR

Gear wear is indicated.

CONTAMINATION

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

FLUID CONDITION

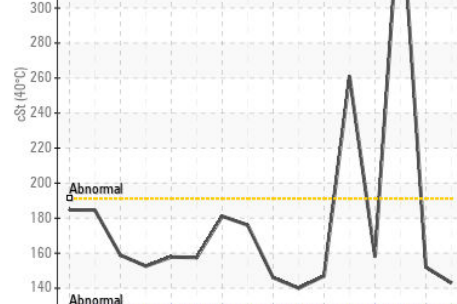
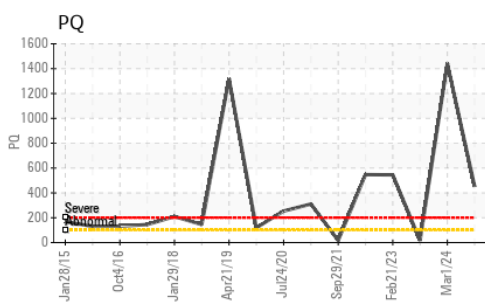
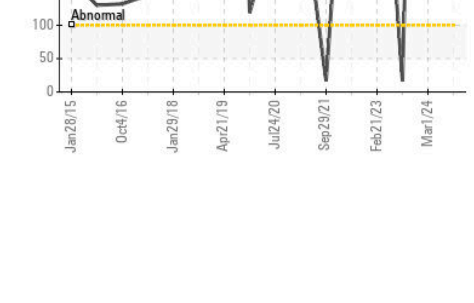
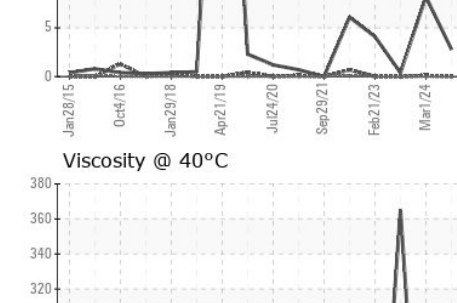
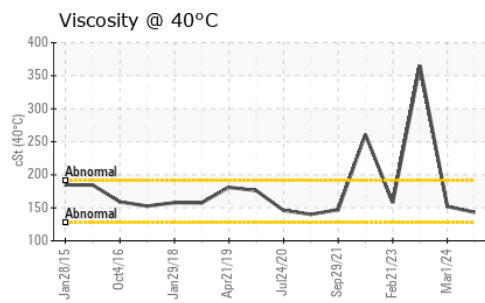
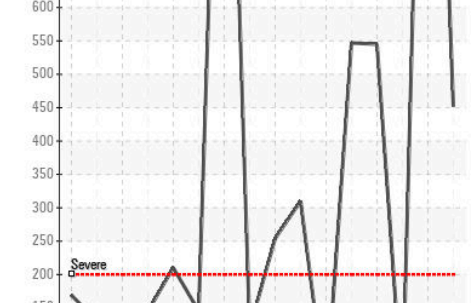
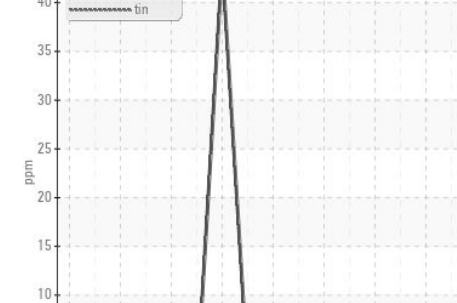
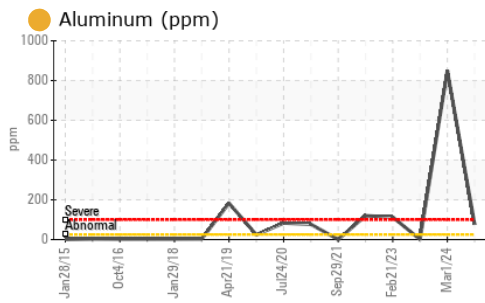
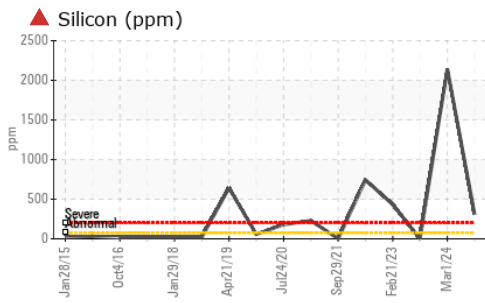
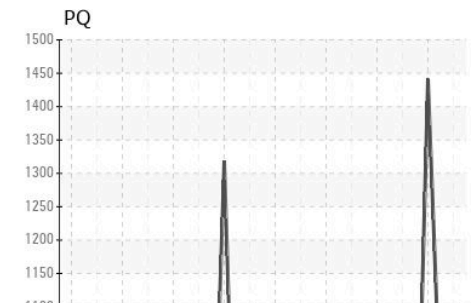
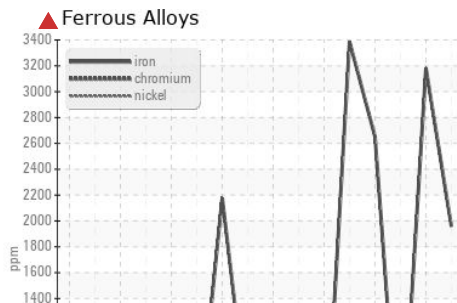
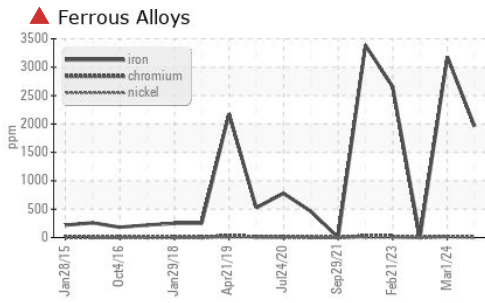
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0189051	JR0206584	JR0179052
Sample Date		Client Info		18 Mar 2024	01 Mar 2024	02 Aug 2023
Machine Age	hrs	Client Info		8984	8984	8468
Oil Age	hrs	Client Info		7491	8007	7491
Filter Age	hrs	Client Info		0	8007	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				SEVERE	SEVERE	ATTENTION

PQ		ASTM D8184		452	▲ 1441	17
Iron	ppm	ASTM D5185m	>500	▲ 1958	▲ 3183	2
Chromium	ppm	ASTM D5185m	>10	▲ 14	▲ 20	0
Nickel	ppm	ASTM D5185m	>10	2	6	0
Titanium	ppm	ASTM D5185m		6	▲ 51	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 77	● 849	<1
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>50	3	8	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	3	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 309	▲ 2144	1
Potassium	ppm	ASTM D5185m	>20	10	56	2
Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		11	141	4
Boron	ppm	ASTM D5185m		24	● 22	● <1
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		<1	1	0
Manganese	ppm	ASTM D5185m		14	● 27	0
Magnesium	ppm	ASTM D5185m		9	● 162	3
Calcium	ppm	ASTM D5185m		54	245	● 9
Phosphorus	ppm	ASTM D5185m		370	● 289	● 2437
Zinc	ppm	ASTM D5185m		12	● 5	● 12
Sulfur	ppm	ASTM D5185m		21510	18353	25056
Visc @ 40°C	cSt	ASTM D445		143	152	● 365



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189051 **Received** : 20 Mar 2024
Lab Number : 06123911 **Tested** : 21 Mar 2024
Unique Number : 10938062 **Diagnosed** : 22 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - CHARLOTTE
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 US 28269
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 F: (704)596-6198

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)