



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HITACHI 210LC-5 1FFDCJ70TEE330472
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0220146	JR0189051	JR0206584
Sample Date		Client Info		15 Jul 2024	18 Mar 2024	01 Mar 2024
Machine Age	hrs	Client Info		9453	8984	8984
Oil Age	hrs	Client Info		7960	7491	8007
Filter Age	hrs	Client Info		0	0	8007
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

PQ		ASTM D8184		15	452	▲ 1441
Iron	ppm	ASTM D5185m	>500	4	▲ 1958	▲ 3183
Chromium	ppm	ASTM D5185m	>10	0	▲ 14	▲ 20
Nickel	ppm	ASTM D5185m	>10	0	2	6
Titanium	ppm	ASTM D5185m		0	6	▲ 51
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	● 77	● 849
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>50	<1	3	8
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	3
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

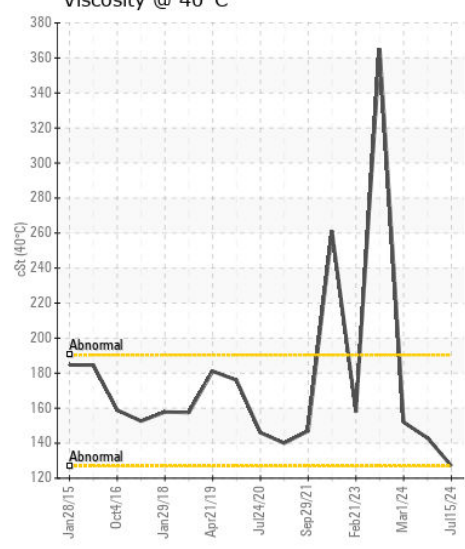
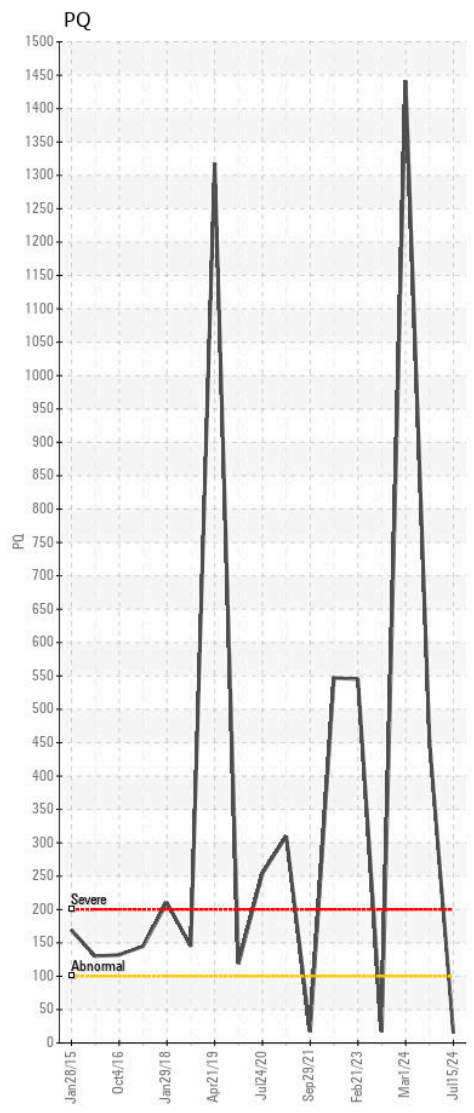
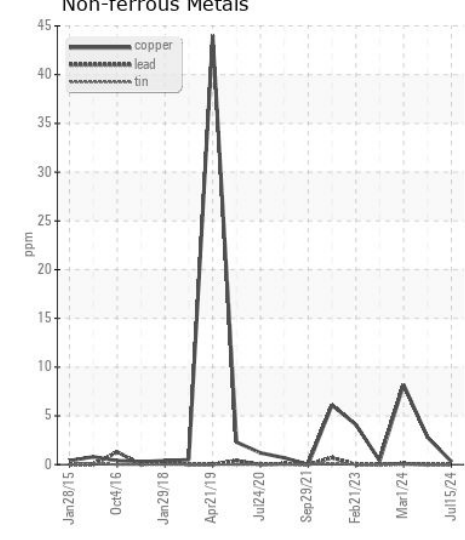
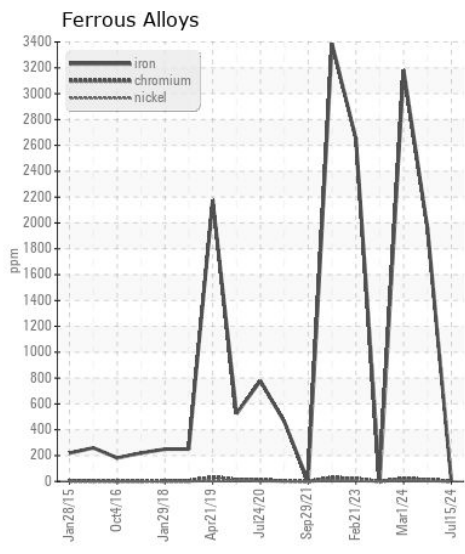
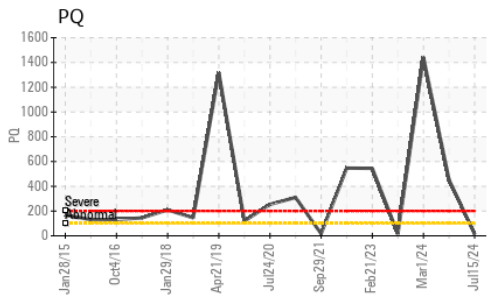
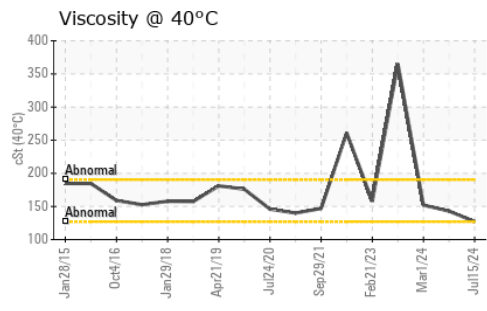
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>75	1	▲ 309	▲ 2144
Potassium	ppm	ASTM D5185m	>20	0	10	56
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

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	11	141
Boron	ppm	ASTM D5185m		6	24	● 22
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		<1	<1	1
Manganese	ppm	ASTM D5185m		<1	14	● 27
Magnesium	ppm	ASTM D5185m		6	9	● 162
Calcium	ppm	ASTM D5185m		68	54	245
Phosphorus	ppm	ASTM D5185m		1648	370	● 289
Zinc	ppm	ASTM D5185m		83	12	● 5
Sulfur	ppm	ASTM D5185m		19125	21510	18353
Visc @ 40°C	cSt	ASTM D445		127	143	152



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0220146 **Received** : 17 Jul 2024
Lab Number : 06239429 **Tested** : 18 Jul 2024
Unique Number : 11128263 **Diagnosed** : 19 Jul 2024 - Doug Bogart
Test Package : CONST (Additional Tests: PQ)

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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)