



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[W67130]

Machine Id
HITACHI 470LC HCMJAG60C00060577

Component
Right Final Drive

Fluid
JOHN DEERE GL-5 80W90 (3 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: W67130)

WEAR

Gear wear is indicated.

CONTAMINATION

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

FLUID CONDITION

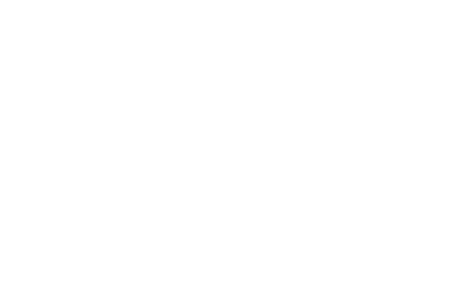
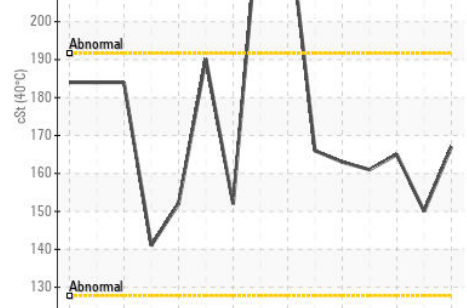
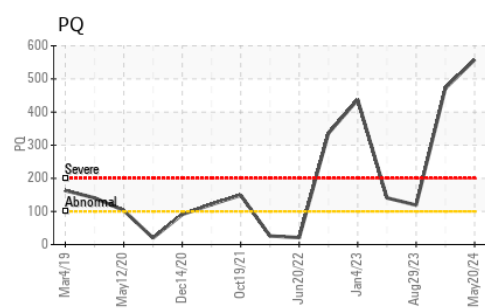
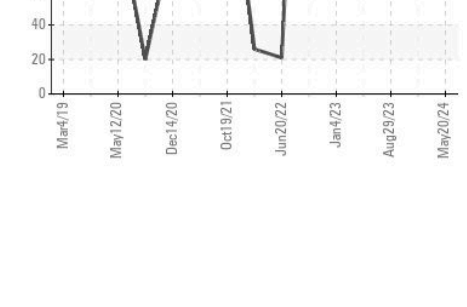
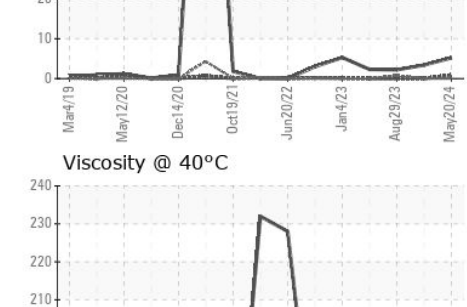
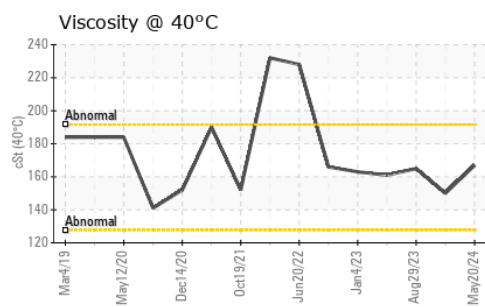
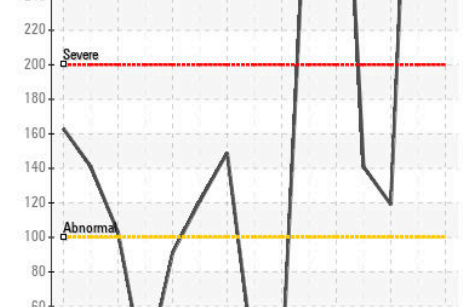
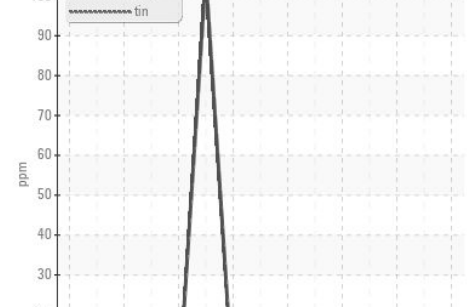
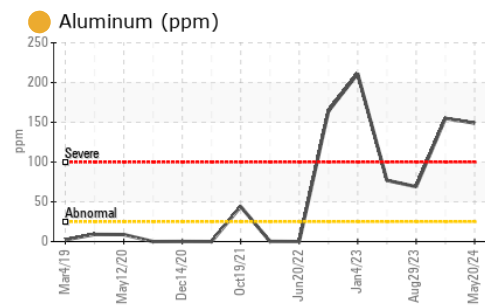
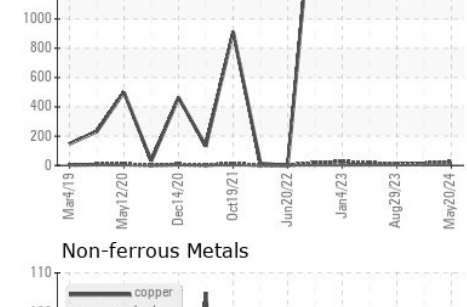
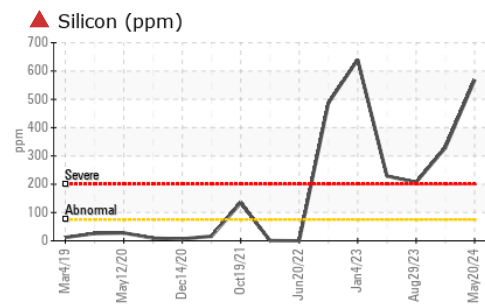
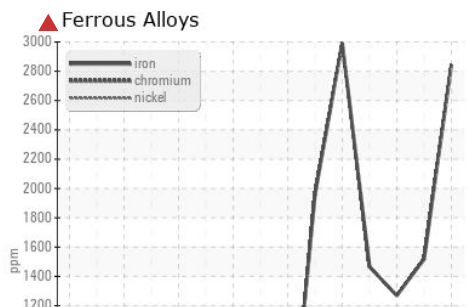
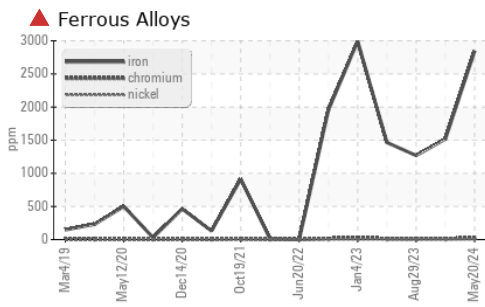
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215763	JR0188511	JR0178040
Sample Date		Client Info		20 May 2024	05 Jan 2024	29 Aug 2023
Machine Age	hrs	Client Info		8038	8575	8296
Oil Age	hrs	Client Info		6509	6788	1787
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL

PQ		ASTM D8184		558	● 472	119
Iron	ppm	ASTM D5185m	>500	▲ 2844	▲ 1518	▲ 1269
Chromium	ppm	ASTM D5185m	>10	▲ 24	▲ 14	▲ 12
Nickel	ppm	ASTM D5185m	>10	3	2	<1
Titanium	ppm	ASTM D5185m		▲ 12	11	4
Silver	ppm	ASTM D5185m		1	0	0
Aluminum	ppm	ASTM D5185m	>25	● 149	● 155	● 69
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>50	5	3	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 568	▲ 329	▲ 207
Potassium	ppm	ASTM D5185m	>20	24	14	8
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		19	15	14
Boron	ppm	ASTM D5185m		51	15	42
Barium	ppm	ASTM D5185m		2	2	0
Molybdenum	ppm	ASTM D5185m		2	<1	1
Manganese	ppm	ASTM D5185m		22	14	11
Magnesium	ppm	ASTM D5185m		14	26	9
Calcium	ppm	ASTM D5185m		19	130	16
Phosphorus	ppm	ASTM D5185m		1003	366	985
Zinc	ppm	ASTM D5185m		12	41	8
Sulfur	ppm	ASTM D5185m		23724	17395	25056
Visc @ 40°C	cSt	ASTM D445		167	150	165



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215763
Lab Number : 06191316
Unique Number : 11048068
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)