



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
HITACHI 470LC-6 HCMJAG60T00060492
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- 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.

WEAR

Gear wear is indicated.

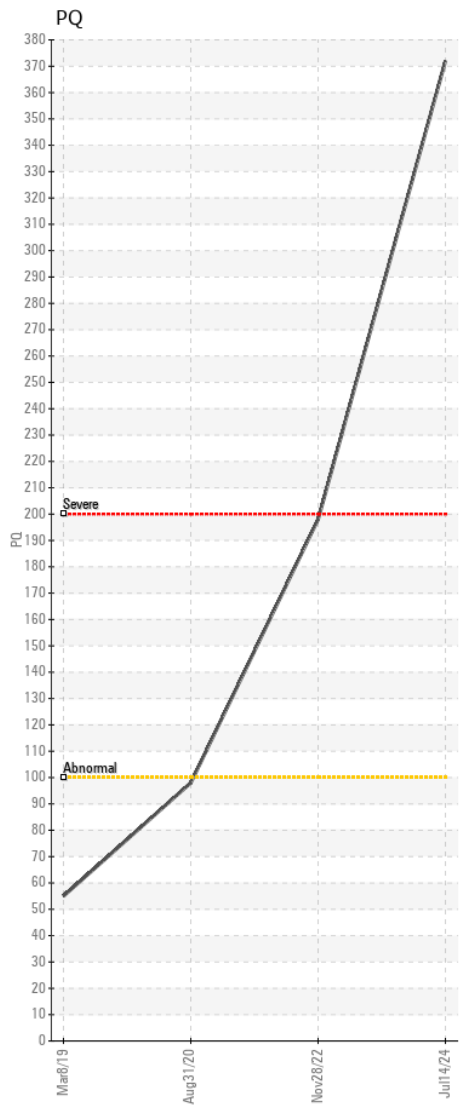
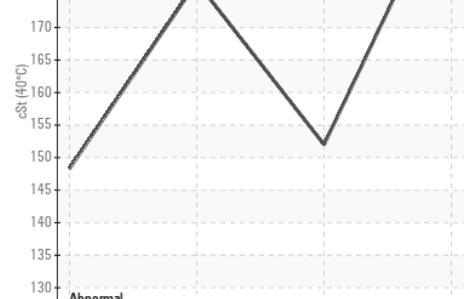
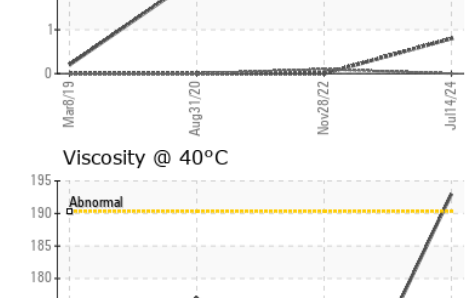
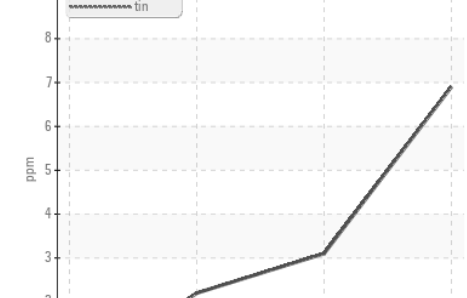
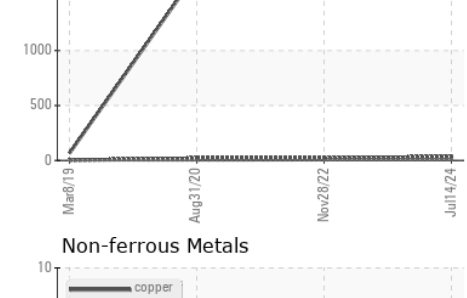
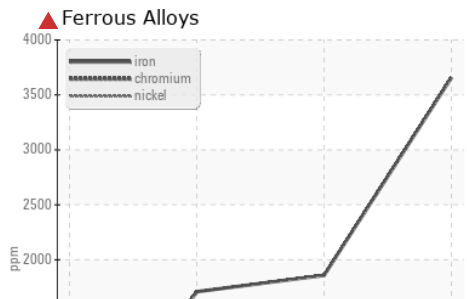
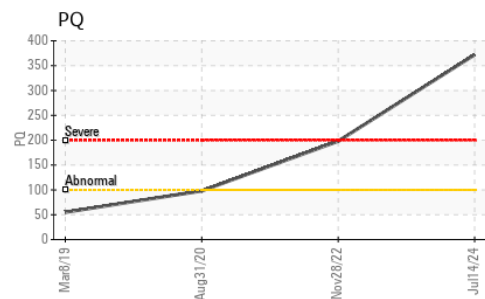
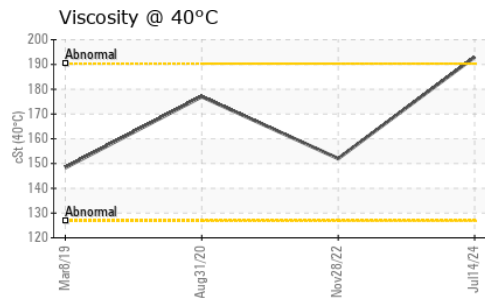
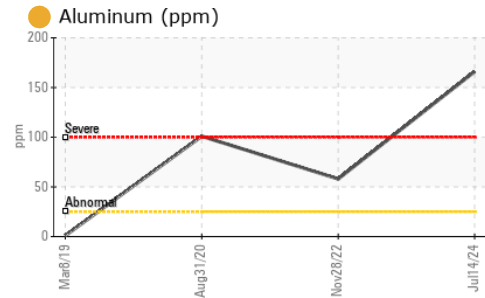
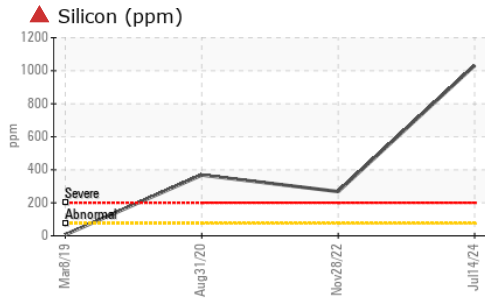
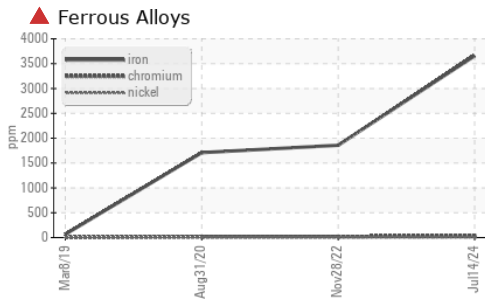
CONTAMINATION

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		JR0224399	JR0148711	JR0059724
Sample Date		Client Info		14 Jul 2024	28 Nov 2022	31 Aug 2020
Machine Age	hrs	Client Info		8033	5966	3982
Oil Age	hrs	Client Info		0	0	2000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184		372	198	98
Iron	ppm	ASTM D5185m	>500	▲ 3658	▲ 1858	▲ 1709
Chromium	ppm	ASTM D5185m	>10	▲ 35	▲ 20	▲ 20
Nickel	ppm	ASTM D5185m	>10	4	2	<1
Titanium	ppm	ASTM D5185m		22	4	5
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	● 166	● 58	● 101
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>50	7	3	2
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 1032	▲ 268	▲ 368
Potassium	ppm	ASTM D5185m	>20	50	15	31
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		8	5	9
Boron	ppm	ASTM D5185m		126	136	30
Barium	ppm	ASTM D5185m		1	0	<1
Molybdenum	ppm	ASTM D5185m		4	2	0
Manganese	ppm	ASTM D5185m		28	15	16
Magnesium	ppm	ASTM D5185m		10	7	12
Calcium	ppm	ASTM D5185m		8	16	43
Phosphorus	ppm	ASTM D5185m		1006	1329	1841
Zinc	ppm	ASTM D5185m		15	9	23
Sulfur	ppm	ASTM D5185m		30684	25056	22194
Visc @ 40°C	cSt	ASTM D445		193	152	177



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0224399 **Received** : 17 Jul 2024
Lab Number : 06239372 **Tested** : 18 Jul 2024
Unique Number : 11128206 **Diagnosed** : 19 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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)

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005
 Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com
 T: (804)798-6001
 F: (804)798-0292