



Machine Id
JOHN DEERE 331G 1T0331GMEHF308385
 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. 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.

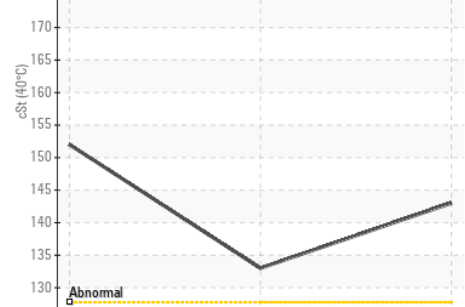
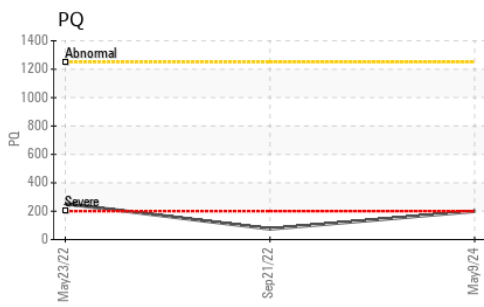
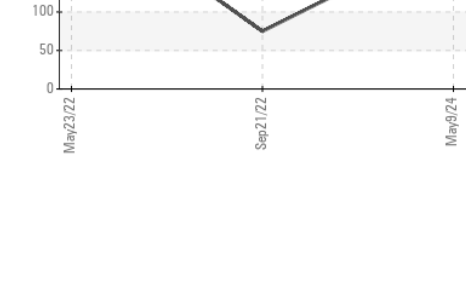
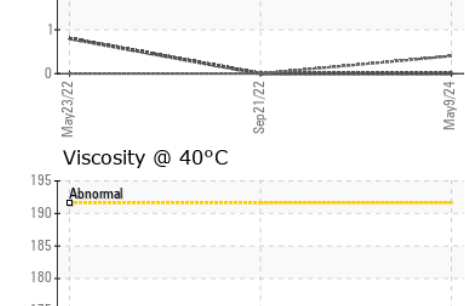
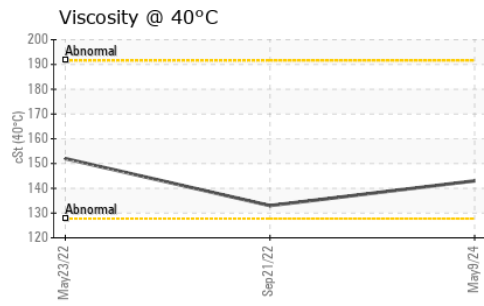
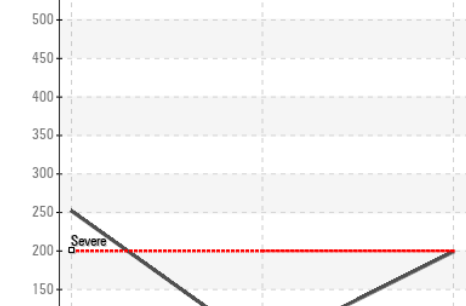
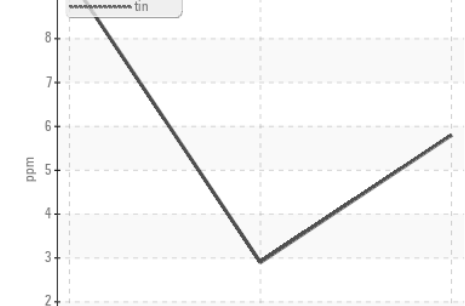
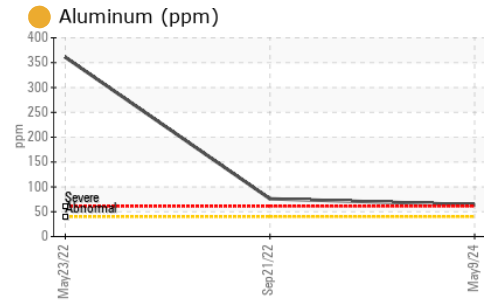
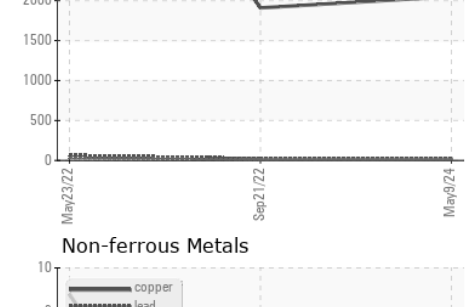
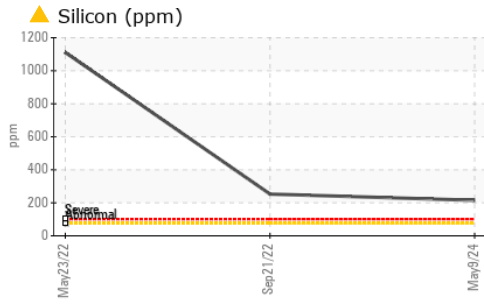
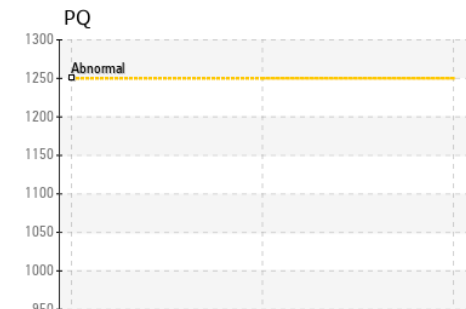
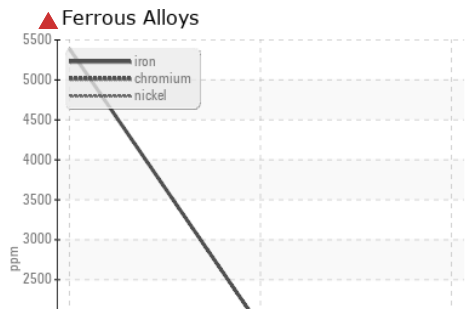
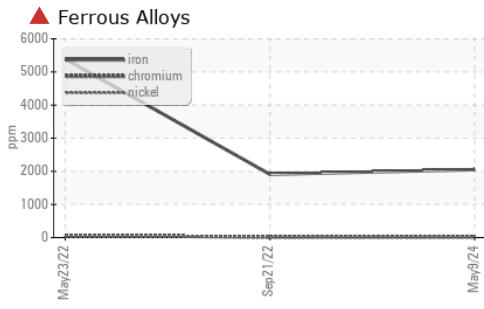
CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215745	JR0142421	JR0128778
Sample Date		Client Info		09 May 2024	21 Sep 2022	23 May 2022
Machine Age	hrs	Client Info		1178	931	881
Oil Age	hrs	Client Info		931	500	0
Filter Age	hrs	Client Info		0	500	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	>1250	199	75	252
Iron	ppm	ASTM D5185m	>750	▲ 2052	▲ 1909	▲ 5390
Chromium	ppm	ASTM D5185m	>9	▲ 20	▲ 18	▲ 60
Nickel	ppm	ASTM D5185m	>10	13	12	29
Titanium	ppm	ASTM D5185m		6	6	27
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 64	● 76	● 361
Lead	ppm	ASTM D5185m	>15	0	0	<1
Copper	ppm	ASTM D5185m	>40	6	3	9
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		1	1	3
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 215	▲ 253	▲ 1111
Potassium	ppm	ASTM D5185m	>20	8	8	48
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	▲ 0.2%
Sodium	ppm	ASTM D5185m	>51	10	9	48
Boron	ppm	ASTM D5185m		28	25	112
Barium	ppm	ASTM D5185m		15	21	68
Molybdenum	ppm	ASTM D5185m		7	3	9
Manganese	ppm	ASTM D5185m		15	17	52
Magnesium	ppm	ASTM D5185m		30	17	69
Calcium	ppm	ASTM D5185m		52	29	155
Phosphorus	ppm	ASTM D5185m		435	443	817
Zinc	ppm	ASTM D5185m		28	28	97
Sulfur	ppm	ASTM D5185m		23920	23023	27657
Visc @ 40°C	cSt	ASTM D445		143	133	152



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215745 **Received** : 13 May 2024
Lab Number : 06177484 **Tested** : 14 May 2024
Unique Number : 11023537 **Diagnosed** : 15 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269

Contact: CHARLOTTE SHOP
 myoung@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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