



Area  
**[MURPHYS EXC]**  
Machine Id  
**JOHN DEERE 300G 3602212 (S/N 1TT300GXAGF730338)**  
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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0104521</b>	JR0021204	JRMC449915
Sample Date		Client Info		<b>03 Nov 2021</b>	12 Nov 2019	17 Oct 2018
Machine Age	hrs	Client Info		<b>3017</b>	2094	1501
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	<b>494</b>	450	434
Iron	ppm	ASTM D5185m	>750	<b>1712</b>	922	▲ 1028
Chromium	ppm	ASTM D5185m	>9	<b>12</b>	8	11
Nickel	ppm	ASTM D5185m		<b>2</b>	3	3
Titanium	ppm	ASTM D5185m		<b>10</b>	5	3
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>40	<b>92</b>	46	22
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	0
Copper	ppm	ASTM D5185m	>40	<b>2</b>	1	1
Tin	ppm	ASTM D5185m		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

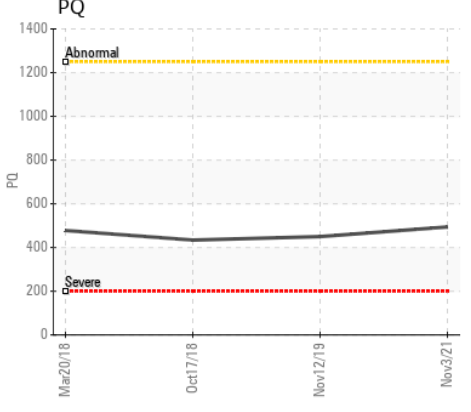
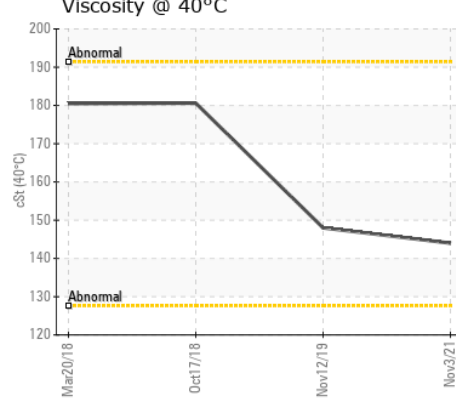
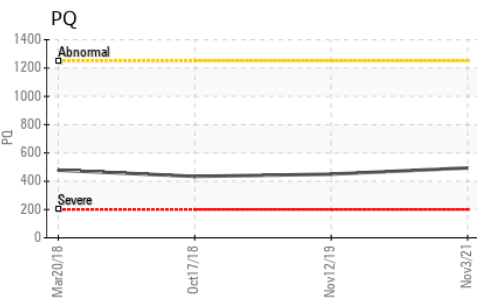
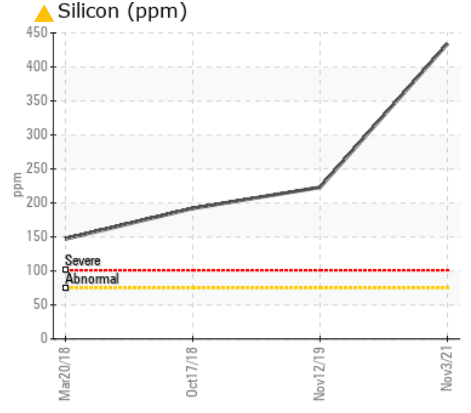
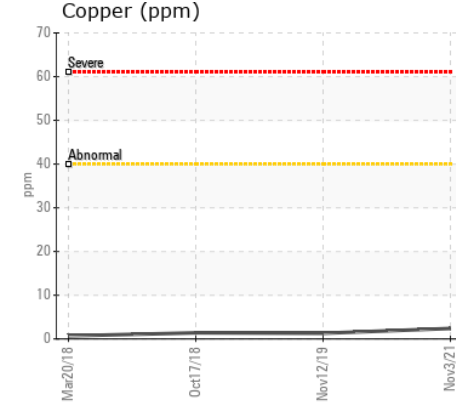
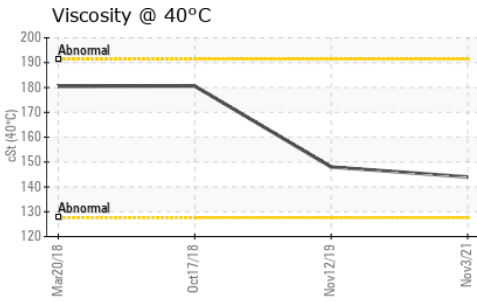
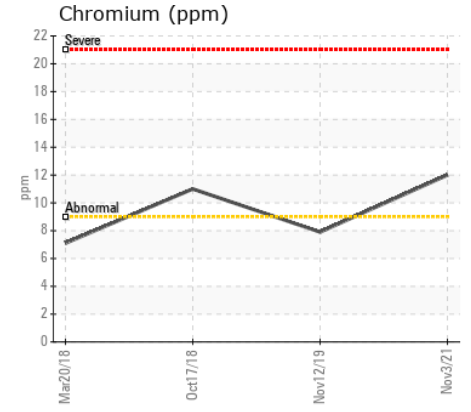
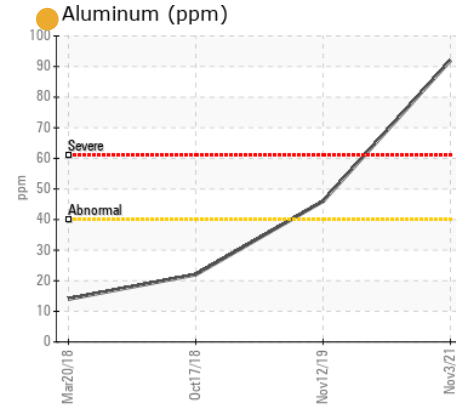
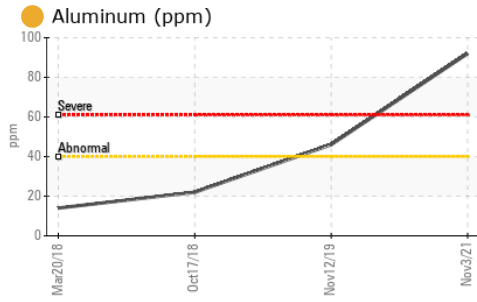
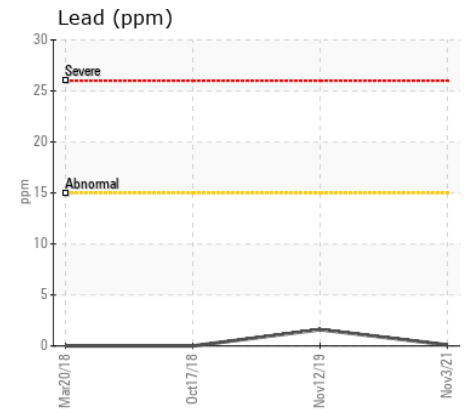
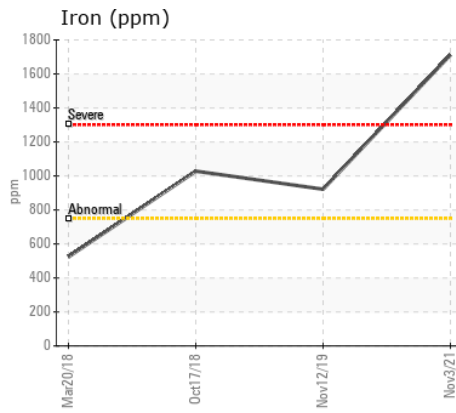
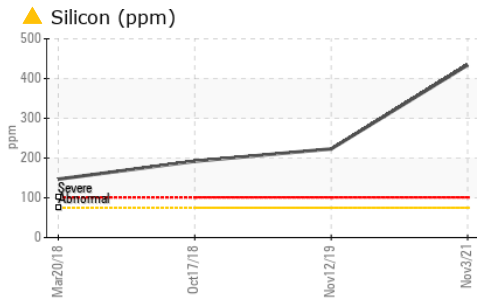
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>▲ 434</b>	▲ 223	▲ 192
Potassium	ppm	ASTM D5185m	>20	<b>34</b>	29	18
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	▲ 0.2%	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	<b>2</b>	3	3
Boron	ppm	ASTM D5185m		<b>39</b>	138	61
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	2	4
Molybdenum	ppm	ASTM D5185m		<b>1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>12</b>	7	10
Magnesium	ppm	ASTM D5185m		<b>12</b>	5	1
Calcium	ppm	ASTM D5185m		<b>25</b>	17	12
Phosphorus	ppm	ASTM D5185m		<b>415</b>	862	501
Zinc	ppm	ASTM D5185m		<b>6</b>	21	27
Sulfur	ppm	ASTM D5185m		<b>16888</b>	15295	12608
Visc @ 40°C	cSt	ASTM D445		<b>144</b>	148	180.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0104521 **Received** : 08 Nov 2021  
**Lab Number** : 05394956 **Tested** : 10 Nov 2021  
**Unique Number** : 9734106 **Diagnosed** : 10 Nov 2021 - Angela Borella  
**Test Package** : MOBCE ( Additional Tests: PQ )

**JRE - STEPHENSON**  
 245 YARDMASTER COURT  
 STEPHENSON, VA  
 US 22656-1761  
 Contact: PHIL DAUGHERTY  
 pdaugherty@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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