



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**ABNORMAL**  
**NORMAL**



Area  
**Store 3 - Norton**  
Machine Id  
**JOHN DEERE 210G 1FF210GXKMF529702**  
Component  
**Left Propel Gearbox**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (2 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. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

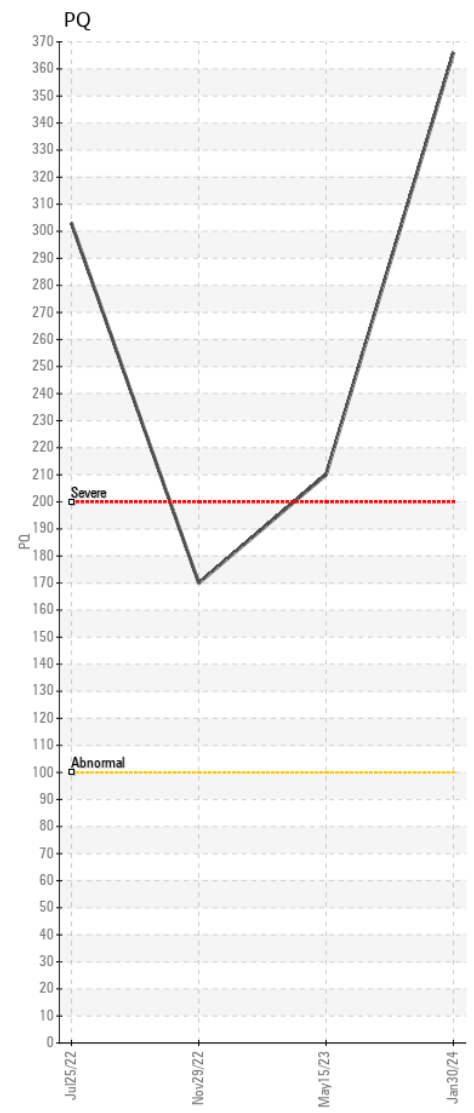
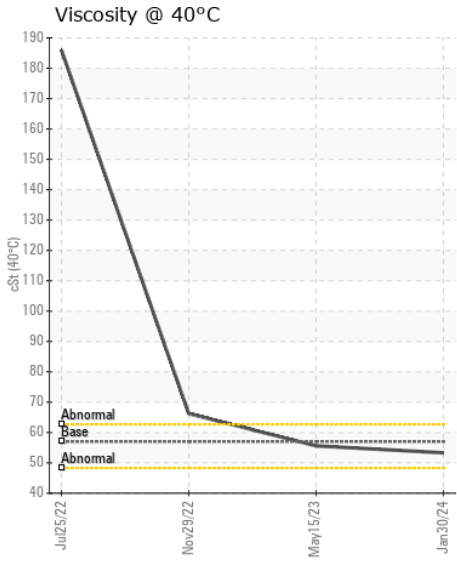
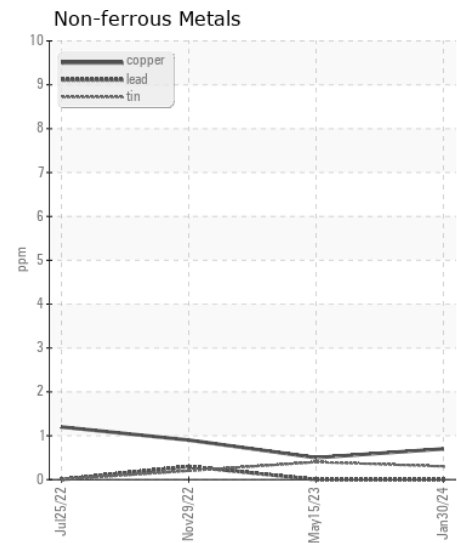
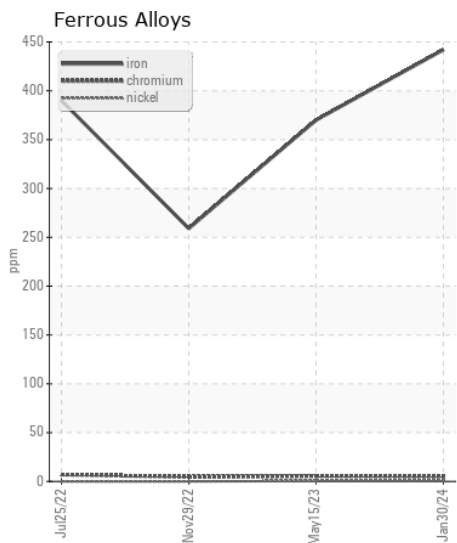
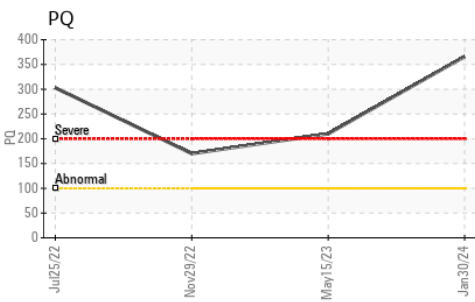
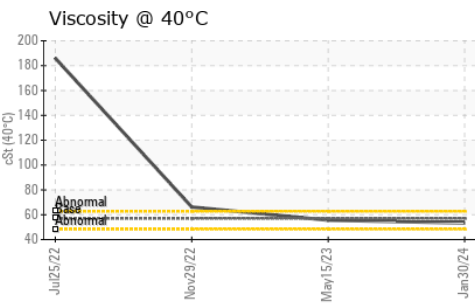
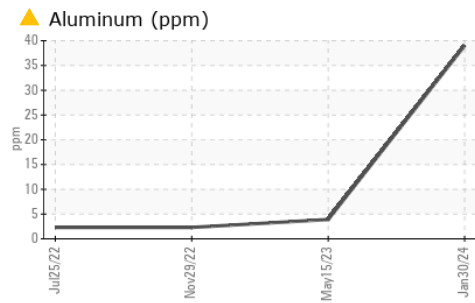
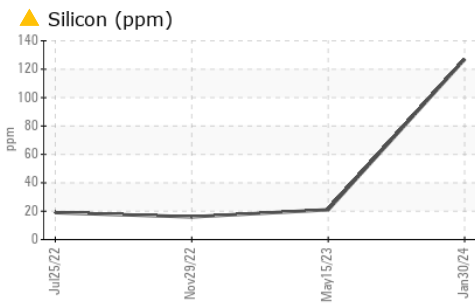
## CONTAMINATION

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

## FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0044814</b>	LEC0037490	LEC0034497
Sample Date		Client Info		<b>30 Jan 2024</b>	15 May 2023	29 Nov 2022
Machine Age	hrs	Client Info		<b>2200</b>	1512	987
Oil Age	hrs	Client Info		<b>688</b>	525	456
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL
PQ		ASTM D8184		<b>366</b>	210	170
Iron	ppm	ASTM D5185m	>1250	<b>442</b>	370	259
Chromium	ppm	ASTM D5185m	>10	<b>5</b>	6	5
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>3</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>▲ 39</b>	4	2
Lead	ppm	ASTM D5185m		<b>0</b>	0	<1
Copper	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m		<b>▲ 127</b>	21	16
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	1	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
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	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185m	6	<b>4</b>	11	30
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	2
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	2	3
Manganese	ppm	ASTM D5185m		<b>5</b>	5	4
Magnesium	ppm	ASTM D5185m	145	<b>94</b>	100	92
Calcium	ppm	ASTM D5185m	3570	<b>3126</b>	3298	2996
Phosphorus	ppm	ASTM D5185m	1290	<b>923</b>	987	925
Zinc	ppm	ASTM D5185m	1640	<b>1135</b>	1214	1055
Sulfur	ppm	ASTM D5185m		<b>3489</b>	4658	5980
Visc @ 40°C	cSt	ASTM D445	57.0	<b>53.3</b>	55.6	▲ 66.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0044814 **Received** : 01 Feb 2024  
**Lab Number** : 06077154 **Tested** : 02 Feb 2024  
**Unique Number** : 10859245 **Diagnosed** : 03 Feb 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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Certificate L2367  
 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)