



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**SEVERE**  
**NORMAL**



Area  
**Store 4 - Fairmont [139281]**  
Machine Id  
**JOHN DEERE 350G 1FF350GXKHF812003**  
Component  
**Right 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. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0040313</b>	LEC0035054	LEC0031508
Sample Date		Client Info		<b>26 May 2023</b>	02 Dec 2022	18 May 2022
Machine Age	hrs	Client Info		<b>4296</b>	3654	3064
Oil Age	hrs	Client Info		<b>642</b>	590	414
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	None
Sample Status				<b>SEVERE</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>307</b>	212	159
Iron	ppm	ASTM D5185m	>1250	<b>515</b>	344	217
Chromium	ppm	ASTM D5185m	>10	<b>4</b>	3	2
Nickel	ppm	ASTM D5185m	>10	<b>3</b>	0	0
Titanium	ppm	ASTM D5185m		<b>11</b>	4	3
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>▲ 201</b>	▲ 50	▲ 82
Lead	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m		<b>1</b>	2	<1
Tin	ppm	ASTM D5185m		<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

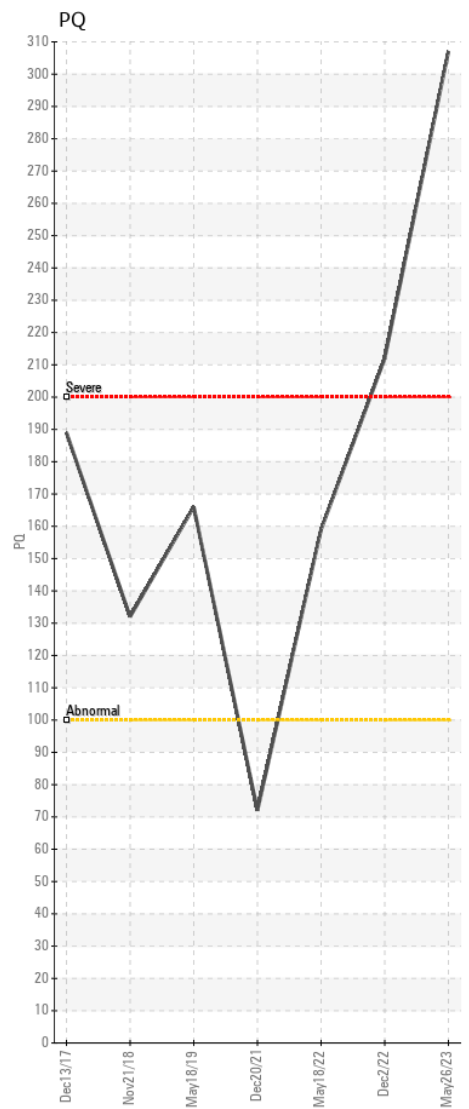
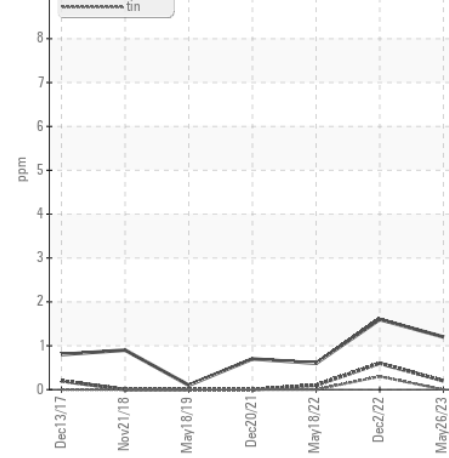
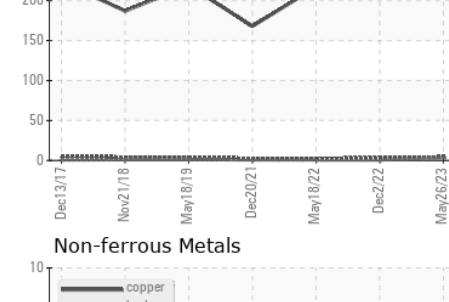
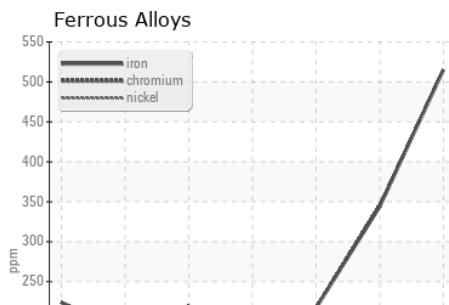
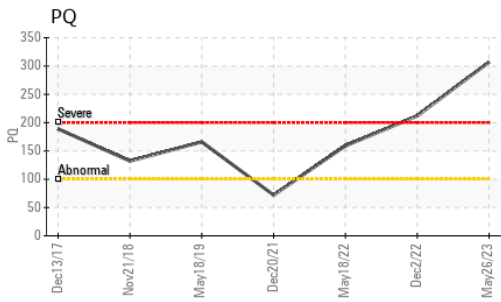
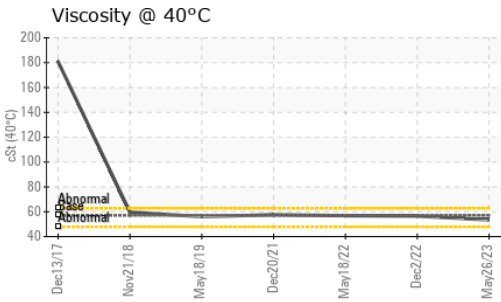
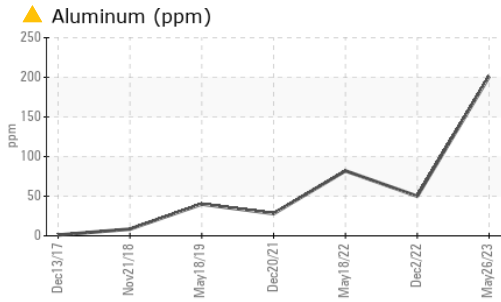
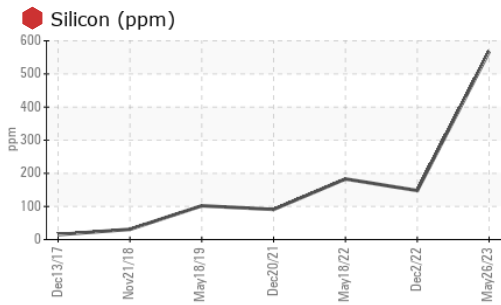
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		<b>◆ 567</b>	▲ 148	▲ 183
Potassium	ppm	ASTM D5185m	>20	<b>58</b>	12	19
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
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	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	2	2
Boron	ppm	ASTM D5185m	6	<b>&lt;1</b>	3	9
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	3	6
Manganese	ppm	ASTM D5185m		<b>6</b>	3	3
Magnesium	ppm	ASTM D5185m	145	<b>110</b>	115	115
Calcium	ppm	ASTM D5185m	3570	<b>3759</b>	3593	3479
Phosphorus	ppm	ASTM D5185m	1290	<b>1037</b>	1050	1082
Zinc	ppm	ASTM D5185m	1640	<b>1274</b>	1223	1294
Sulfur	ppm	ASTM D5185m		<b>3947</b>	4274	3331
Visc @ 40°C	cSt	ASTM D445	57.0	<b>53.4</b>	56.5	56.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0040313 **Received** : 05 Jun 2023  
**Lab Number** : 05864557 **Diagnosed** : 07 Jun 2023  
**Unique Number** : 10499022 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
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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)