



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ABNORMAL**

**SEVERE**

**NORMAL**



Area  
**Store 4 - Fairmont [145965]**  
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>LEC0045886</b>	LEC0040313	LEC0035054
Sample Date		Client Info		<b>12 Jan 2024</b>	26 May 2023	02 Dec 2022
Machine Age	hrs	Client Info		<b>5013</b>	4296	3654
Oil Age	hrs	Client Info		<b>717</b>	642	590
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>SEVERE</b>	SEVERE	ABNORMAL

## WEAR

Gear wear is indicated.

PQ		ASTM D8184		<b>1297</b>	307	212
Iron	ppm	ASTM D5185m	>1250	<b>▲ 1439</b>	515	344
Chromium	ppm	ASTM D5185m	>10	<b>▲ 11</b>	4	3
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	3	0
Titanium	ppm	ASTM D5185m		<b>11</b>	11	4
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>▲ 123</b>	▲ 201	▲ 50
Lead	ppm	ASTM D5185m		<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m		<b>4</b>	1	2
Tin	ppm	ASTM D5185m		<b>0</b>	0	<1
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

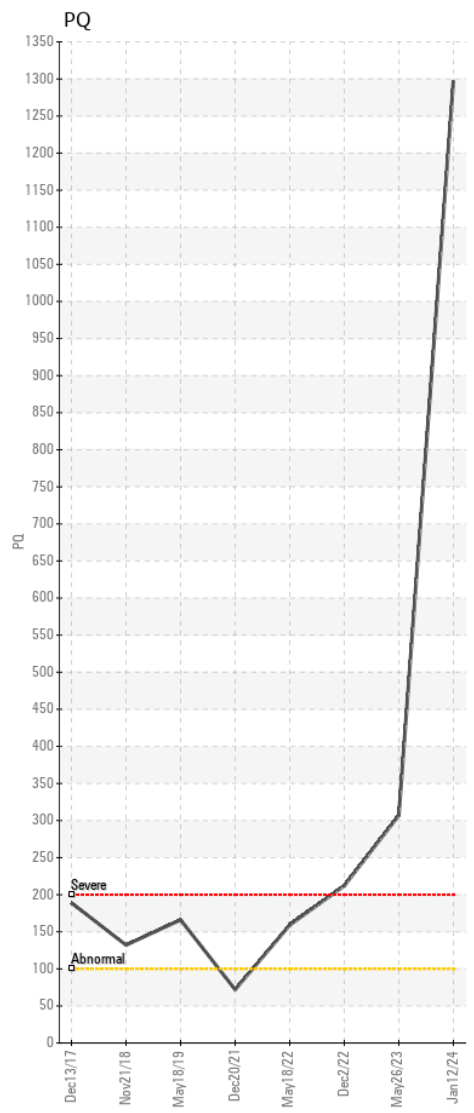
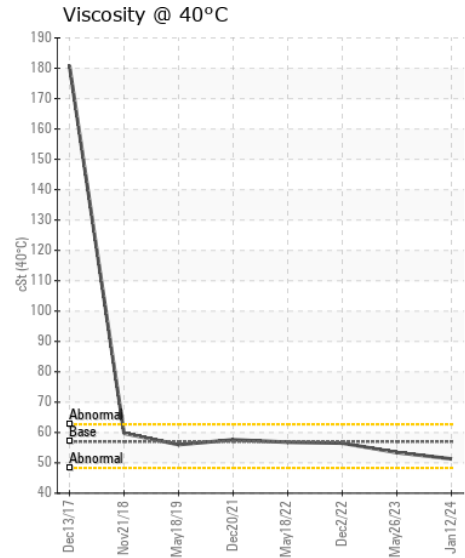
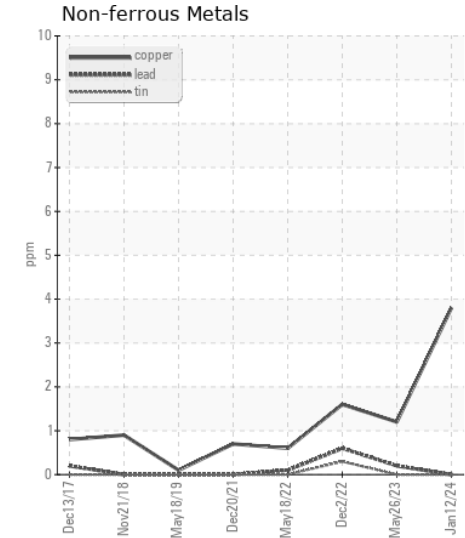
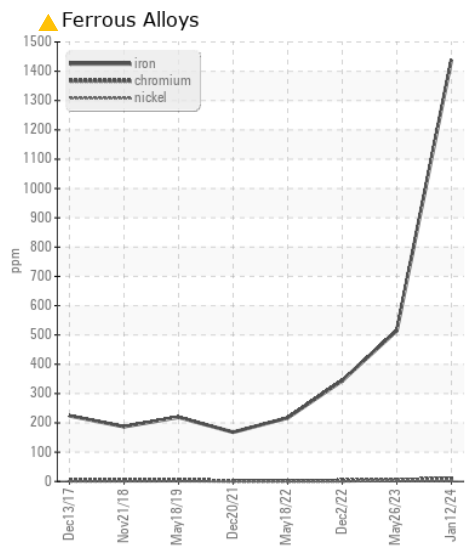
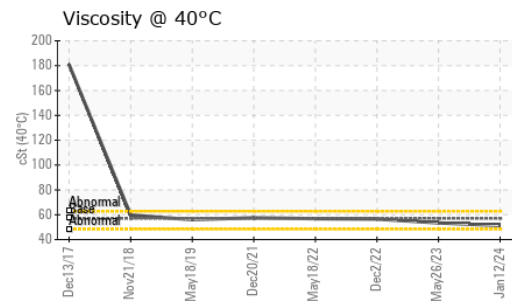
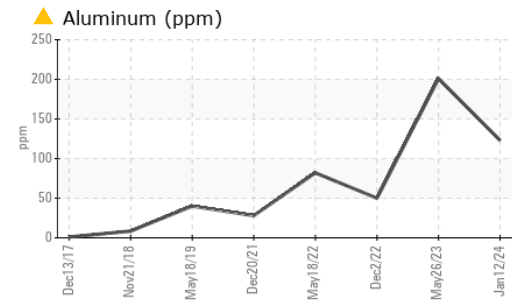
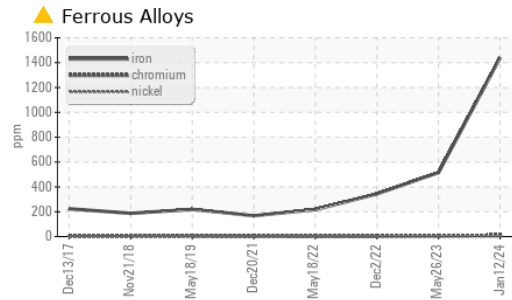
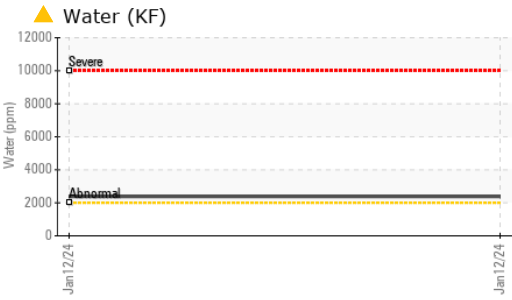
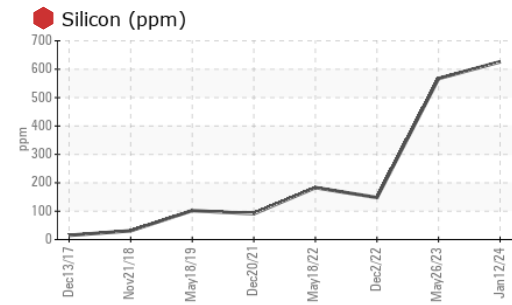
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m		<b>◆ 626</b>	◆ 567	▲ 148
Potassium	ppm	ASTM D5185m	>20	<b>38</b>	58	12
Water	%	ASTM D6304	>0.2	<b>▲ 0.238</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 2380</b>	---	---
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	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	>0.2	<b>0.2%</b>	NEG	NEG

## FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>1</b>	0	2
Boron	ppm	ASTM D5185m	6	<b>0</b>	<1	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	<1	3
Manganese	ppm	ASTM D5185m		<b>13</b>	6	3
Magnesium	ppm	ASTM D5185m	145	<b>117</b>	110	115
Calcium	ppm	ASTM D5185m	3570	<b>3456</b>	3759	3593
Phosphorus	ppm	ASTM D5185m	1290	<b>1012</b>	1037	1050
Zinc	ppm	ASTM D5185m	1640	<b>1231</b>	1274	1223
Sulfur	ppm	ASTM D5185m		<b>3476</b>	3947	4274
Visc @ 40°C	cSt	ASTM D445	57.0	<b>51.3</b>	53.4	56.5



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0045886 **Received** : 16 Jan 2024  
**Lab Number** : 06061494 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10832876 **Diagnostician** : Jonathan Hester  
**Test Package** : CONST ( Additional Tests: KF, PQ )

**LESLIE EQUIPMENT COMPANY**  
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 F: (740)373-5570

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)