



# OIL ANALYSIS REPORT

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**Store 5 - Cross Lanes [149370]**  
Machine Id  
**JOHN DEERE 50G 1FF050GXHLH292763**  
Component  
**Right Propel Gearbox**  
Fluid  
**JOHN DEERE GL-5 80W90 (0 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>LEC0049433</b>	LEC0029776	LEC0017878
Sample Date		Client Info		<b>02 Apr 2024</b>	16 Jun 2022	09 Apr 2021
Machine Age	hrs	Client Info		<b>1534</b>	1004	508
Oil Age	hrs	Client Info		<b>530</b>	496	508
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	Current	History1	History2
Iron	ppm	<b>▲ 2498</b>	▲ 1854	▲ 1804
Chromium	ppm	<b>▲ 27</b>	▲ 26	▲ 38
Nickel	ppm	<b>10</b>	8	9
Titanium	ppm	<b>5</b>	6	▲ 12
Silver	ppm	<b>0</b>	0	<1
Aluminum	ppm	<b>● 55</b>	● 80	● 144
Lead	ppm	<b>2</b>	0	1
Copper	ppm	<b>9</b>	6	7
Tin	ppm	<b>0</b>	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	<1
White Metal	scalar	<b>*Visual</b> NONE	MODER	▲ MODER
Yellow Metal	scalar	<b>*Visual</b> NONE	NONE	NONE

## CONTAMINATION

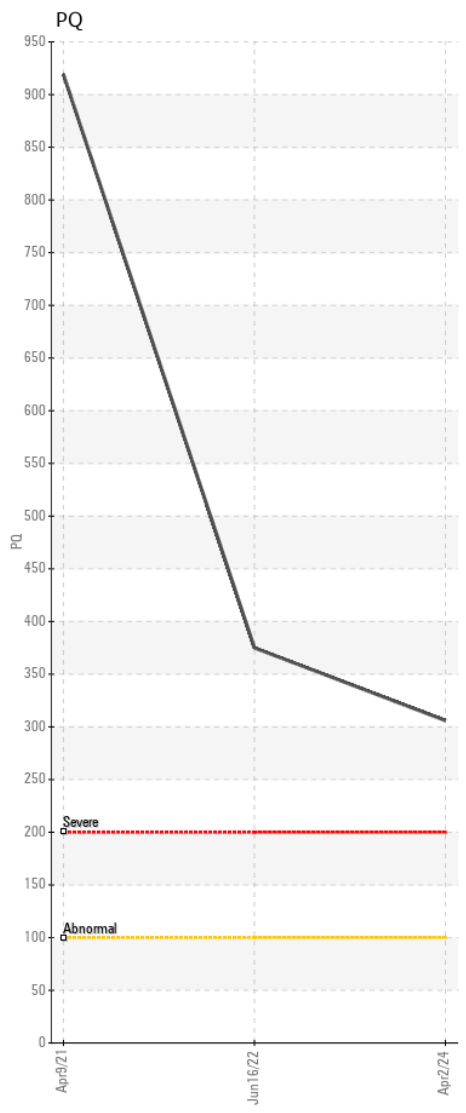
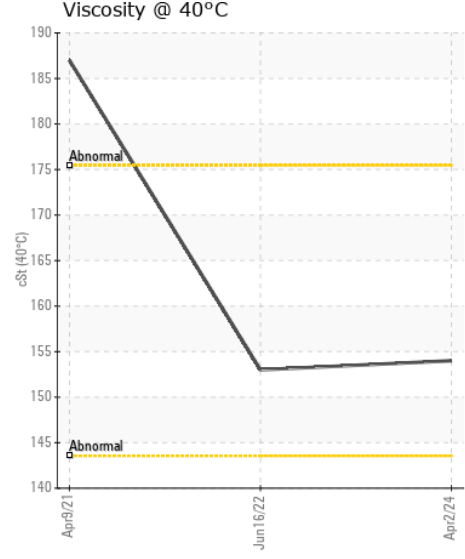
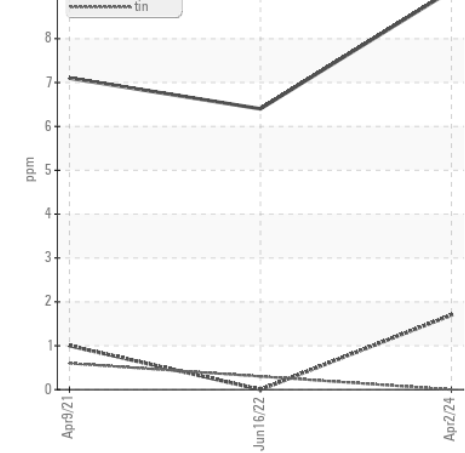
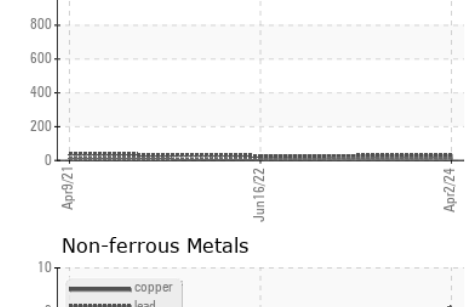
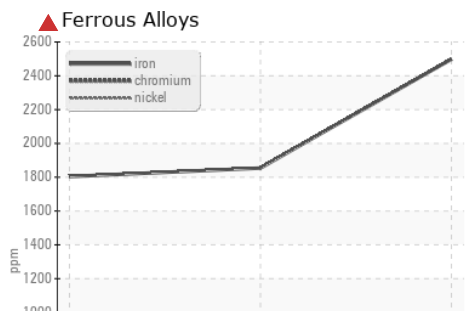
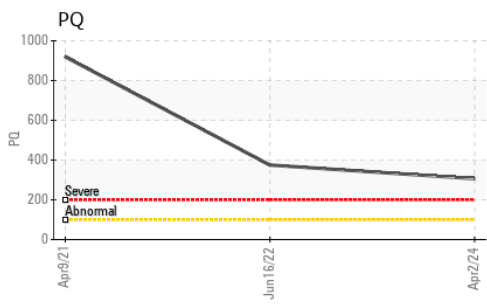
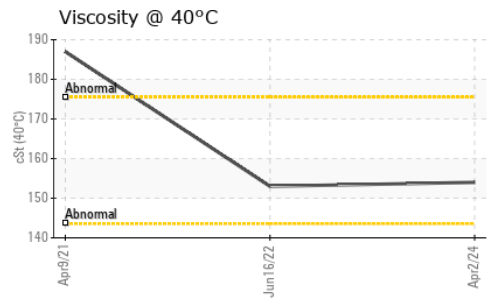
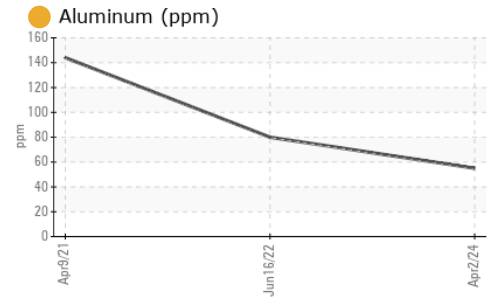
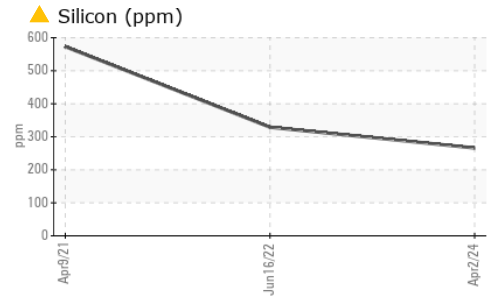
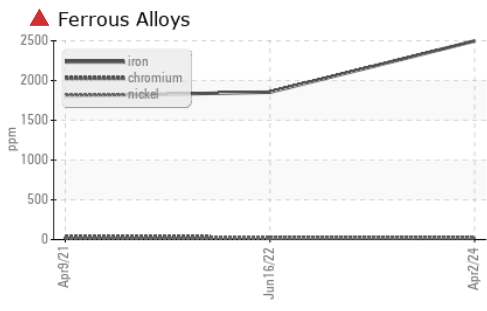
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	<b>▲ 266</b>	▲ 329	▲ 573
Potassium	ppm	ASTM D5185m	<b>25</b>	32	74
Water		WC Method	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	<b>2</b>	4	8
Boron	ppm	ASTM D5185m	<b>13</b>	17	78
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	2
Molybdenum	ppm	ASTM D5185m	<b>3</b>	1	1
Manganese	ppm	ASTM D5185m	<b>21</b>	19	29
Magnesium	ppm	ASTM D5185m	<b>7</b>	7	13
Calcium	ppm	ASTM D5185m	<b>19</b>	22	48
Phosphorus	ppm	ASTM D5185m	<b>348</b>	319	505
Zinc	ppm	ASTM D5185m	<b>84</b>	98	89
Sulfur	ppm	ASTM D5185m	<b>20599</b>	16198	13667
Visc @ 40°C	cSt	ASTM D445	<b>154</b>	153	187



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0049433 **Received** : 11 Apr 2024  
**Lab Number** : 06146109 **Tested** : 12 Apr 2024  
**Unique Number** : 10976187 **Diagnosed** : 15 Apr 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)