



# 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  
**Left 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0049434</b>	LEC0029777	LEC0017881
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	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>316</b>	200	382
Iron	ppm	ASTM D5185m	>1250	<b>▲ 3553</b>	▲ 1912	1085
Chromium	ppm	ASTM D5185m	>10	<b>▲ 43</b>	▲ 30	27
Nickel	ppm	ASTM D5185m	>10	<b>11</b>	9	10
Titanium	ppm	ASTM D5185m		<b>8</b>	6	10
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>● 83</b>	● 71	● 120
Lead	ppm	ASTM D5185m		<b>2</b>	0	<1
Copper	ppm	ASTM D5185m		<b>13</b>	7	5
Tin	ppm	ASTM D5185m		<b>0</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

## CONTAMINATION

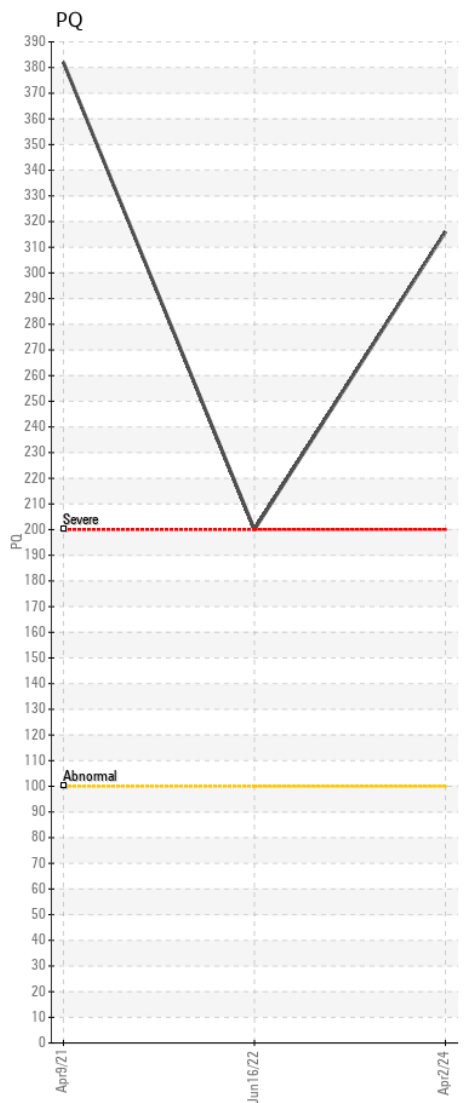
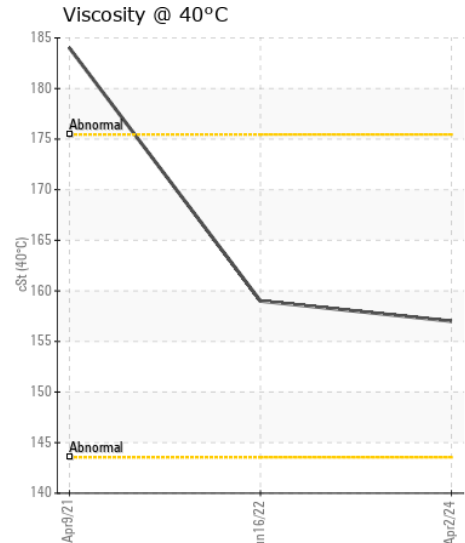
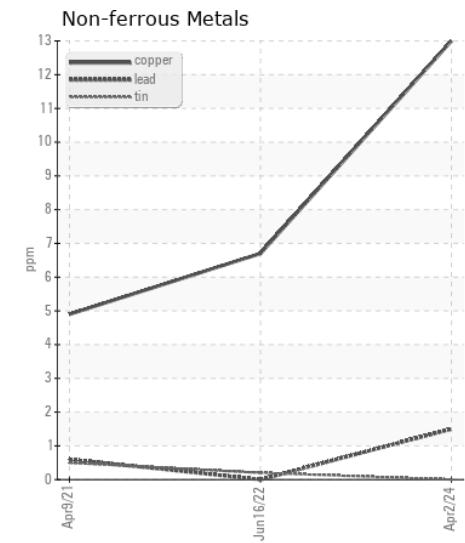
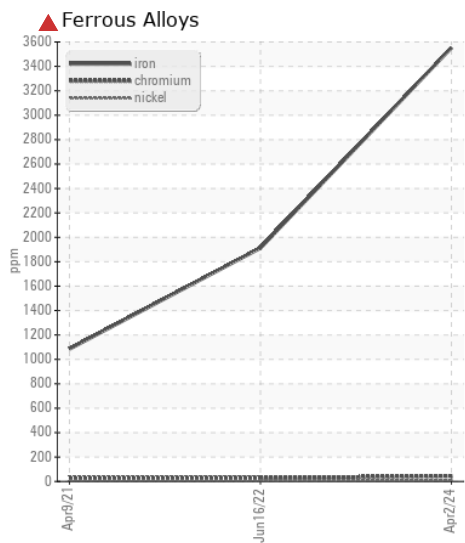
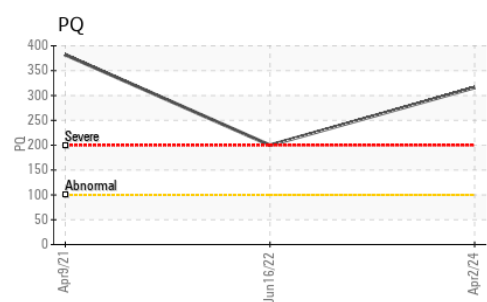
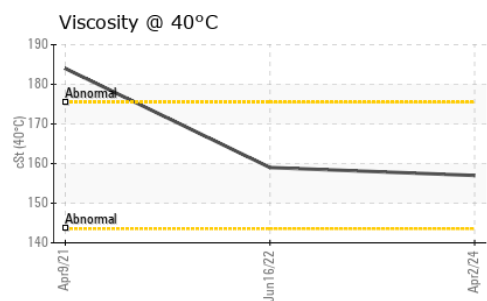
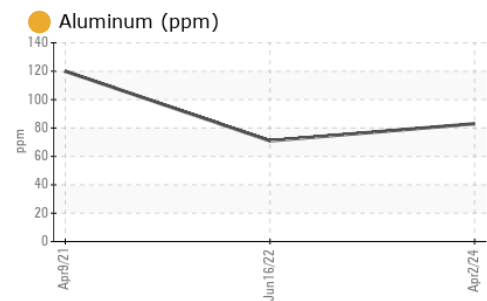
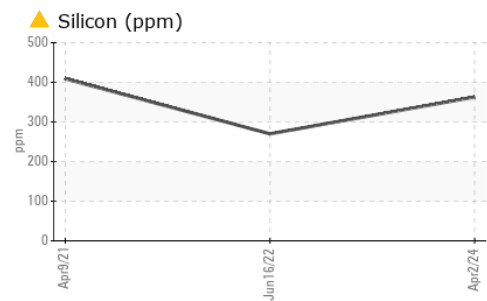
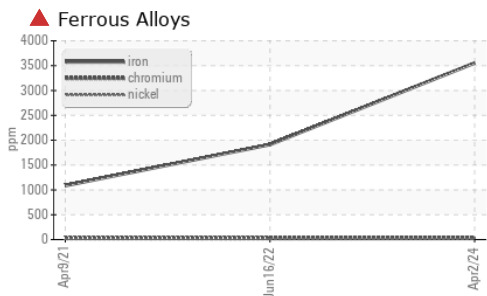
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		<b>▲ 363</b>	▲ 270	▲ 409
Potassium	ppm	ASTM D5185m	>20	<b>33</b>	30	69
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	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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		<b>4</b>	3	5
Boron	ppm	ASTM D5185m		<b>19</b>	17	72
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	1	3
Molybdenum	ppm	ASTM D5185m		<b>4</b>	1	<1
Manganese	ppm	ASTM D5185m		<b>33</b>	22	23
Magnesium	ppm	ASTM D5185m		<b>10</b>	7	11
Calcium	ppm	ASTM D5185m		<b>24</b>	15	50
Phosphorus	ppm	ASTM D5185m		<b>483</b>	314	517
Zinc	ppm	ASTM D5185m		<b>118</b>	105	125
Sulfur	ppm	ASTM D5185m		<b>27337</b>	15997	14233
Visc @ 40°C	cSt	ASTM D445		<b>157</b>	159	184



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0049434 **Received** : 11 Apr 2024  
**Lab Number** : 06146110 **Tested** : 12 Apr 2024  
**Unique Number** : 10976188 **Diagnosed** : 15 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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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)