



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 250G EX25 (S/N 1FF250GXTKF611136)**

Component  
**Right Propel Gearbox**  
 Fluid  
**GEAR OIL SAE 90 (2 GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter 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>LEC0048964</b>	LEC0042558	LEC0001457
Sample Date		Client Info		<b>24 May 2024</b>	08 Jul 2023	08 Aug 2019
Machine Age	hrs	Client Info		<b>4739</b>	3090	553
Oil Age	hrs	Client Info		<b>1000</b>	3090	553
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	None	N/A
Sample Status				<b>SEVERE</b>	SEVERE	NORMAL

## WEAR

Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>547</b>	438	304
Iron	ppm	ASTM D5185m	>1250	<b>▲ 6487</b>	▲ 4989	200
Chromium	ppm	ASTM D5185m	>10	<b>▲ 52</b>	▲ 41	5
Nickel	ppm	ASTM D5185m	>10	<b>9</b>	7	1
Titanium	ppm	ASTM D5185m		<b>38</b>	35	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m		<b>● 519</b>	● 408	<1
Lead	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m		<b>12</b>	7	<1
Tin	ppm	ASTM D5185m		<b>1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>2</b>	1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

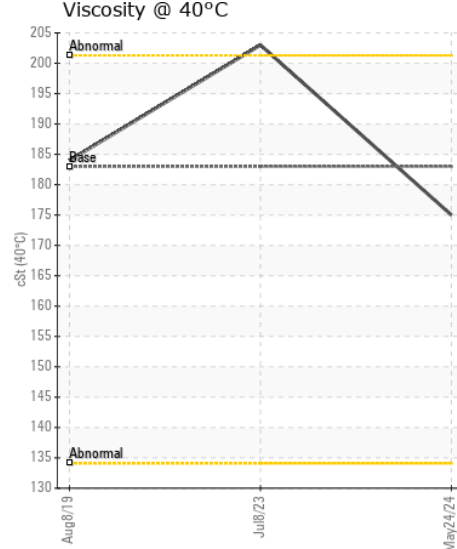
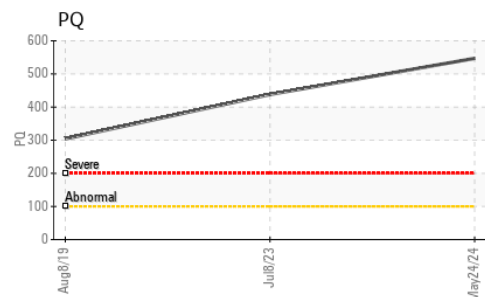
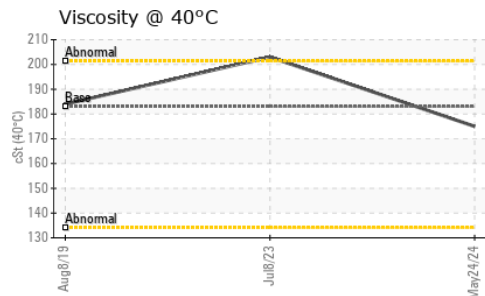
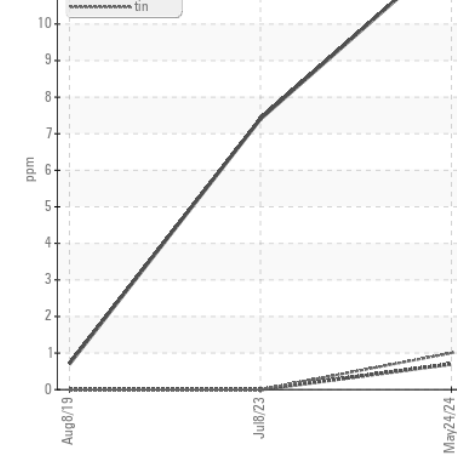
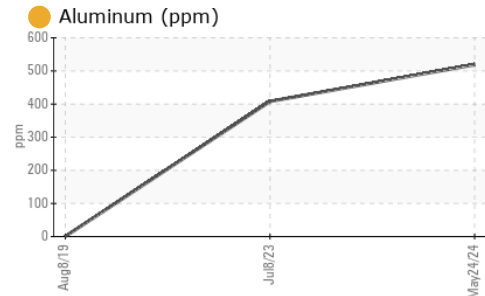
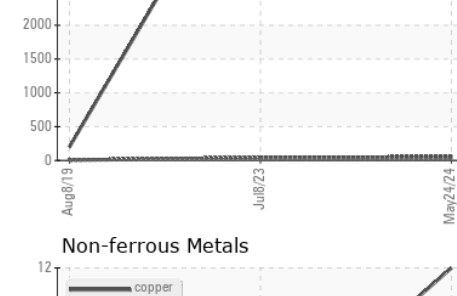
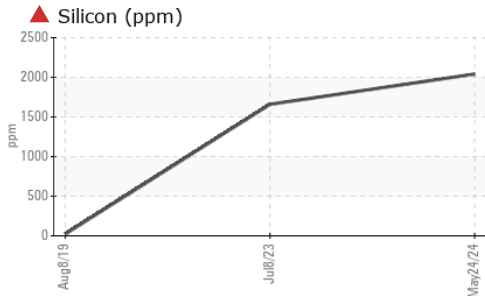
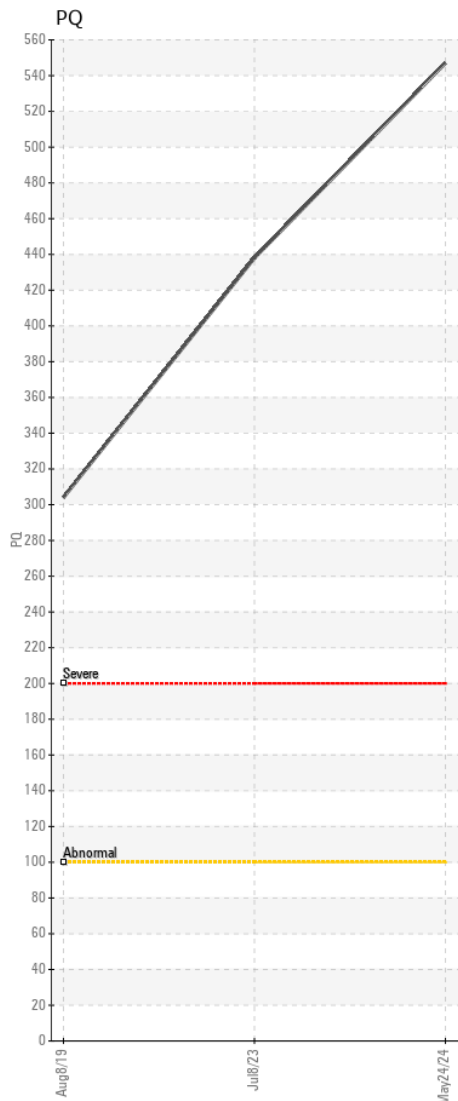
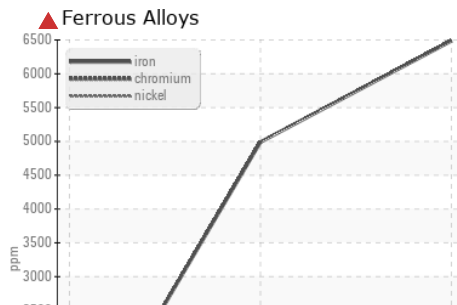
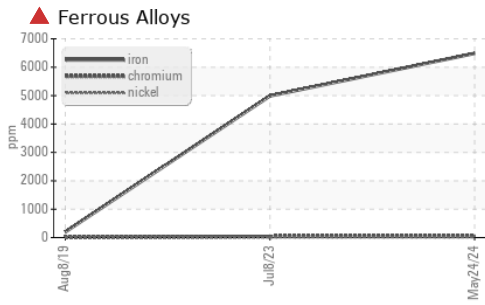
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		<b>▲ 2041</b>	▲ 1659	22
Potassium	ppm	ASTM D5185m	>20	<b>137</b>	108	0
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 oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>24</b>	20	1
Boron	ppm	ASTM D5185m	400	<b>81</b>	63	54
Barium	ppm	ASTM D5185m	200	<b>4</b>	3	7
Molybdenum	ppm	ASTM D5185m	12	<b>8</b>	3	0
Manganese	ppm	ASTM D5185m		<b>47</b>	37	4
Magnesium	ppm	ASTM D5185m	12	<b>41</b>	40	1
Calcium	ppm	ASTM D5185m	150	<b>50</b>	32	9
Phosphorus	ppm	ASTM D5185m	1650	<b>664</b>	651	466
Zinc	ppm	ASTM D5185m	125	<b>12</b>	19	26
Sulfur	ppm	ASTM D5185m	22500	<b>25899</b>	24954	12731
Visc @ 40°C	cSt	ASTM D445	183	<b>175</b>	203	184



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0048964 **Received** : 31 May 2024  
**Lab Number** : 06197013 **Tested** : 04 Jun 2024  
**Unique Number** : 11059136 **Diagnosed** : 04 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**LANE PIPELINE**  
 2946 E MAIN ST  
 BRIDGEPORT, WV  
 US 26330  
 Contact: JESSE WILBURN  
 jessewilburn@gmail.com  
 T: (740)440-0927  
 F:

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)