



# OIL ANALYSIS REPORT

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

Area  
**Store 9 - Marietta**  
 Machine Id  
**JOHN DEERE 160G 31-008 (S/N 1FF160GXPKF057333)**  
 Component  
**Swing Drive**  
 Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0032055</b>	LEC0043936	LEC0032004
Sample Date		Client Info		<b>26 Jun 2024</b>	28 Sep 2023	23 Jul 2022
Machine Age	hrs	Client Info		<b>3341</b>	3122	0
Oil Age	hrs	Client Info		<b>0</b>	1122	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	None	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>23</b>	25	24
Iron	ppm	ASTM D5185m	>151	<b>24</b>	33	22
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>21	<b>2</b>	<1	2
Lead	ppm	ASTM D5185m	>51	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>51	<b>1</b>	0	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

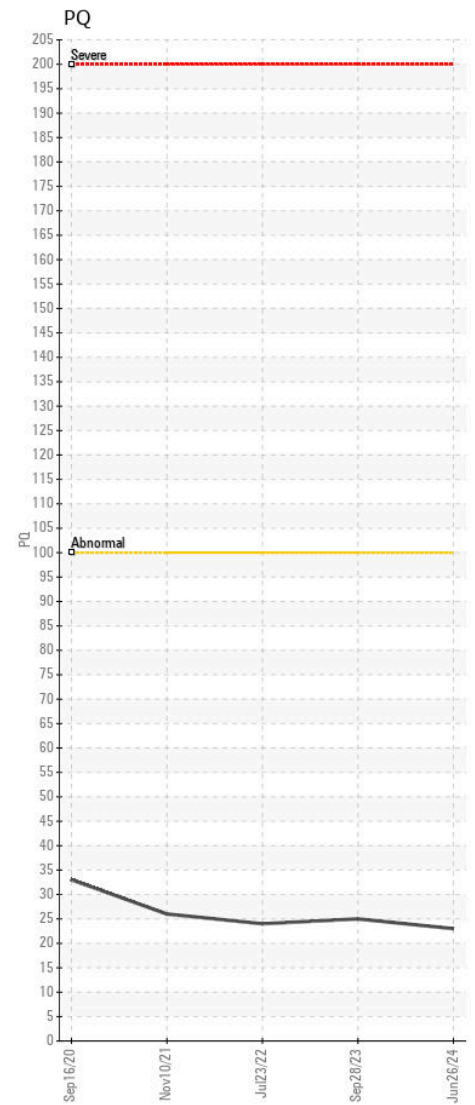
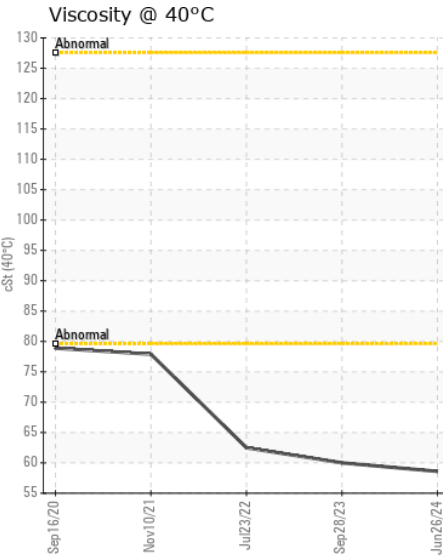
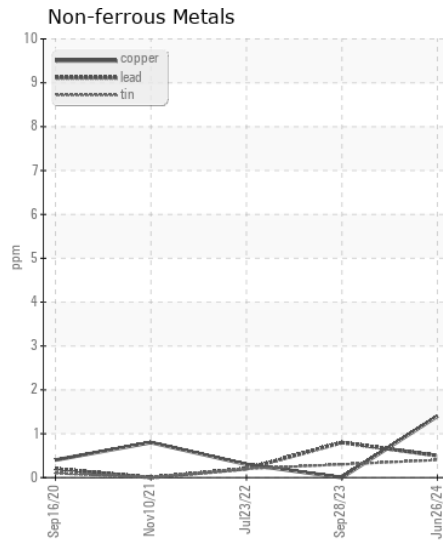
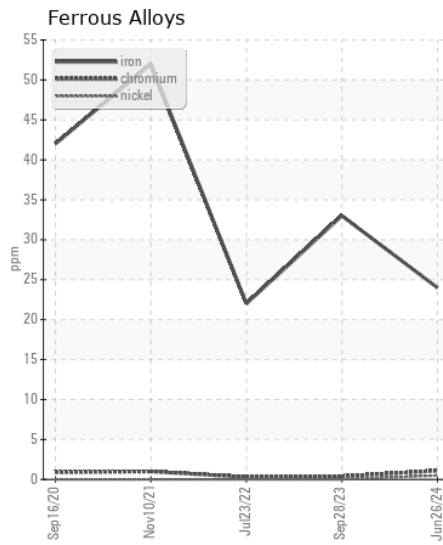
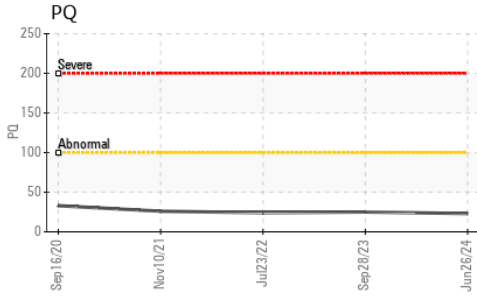
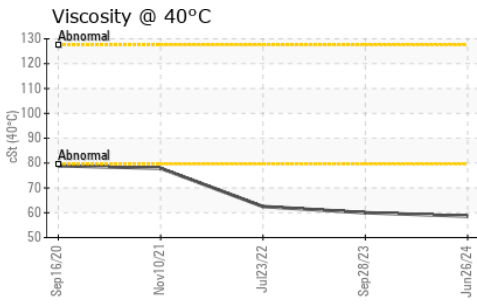
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>8</b>	10	9
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	2
Water		WC Method	>0.1	<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	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	<b>&lt;1</b>	<1	0
Boron	ppm	ASTM D5185m		<b>9</b>	10	13
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>3</b>	1	2
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>108</b>	105	92
Calcium	ppm	ASTM D5185m		<b>3411</b>	3235	3168
Phosphorus	ppm	ASTM D5185m		<b>1033</b>	973	960
Zinc	ppm	ASTM D5185m		<b>1242</b>	1221	1122
Sulfur	ppm	ASTM D5185m		<b>4027</b>	4237	4011
Visc @ 40°C	cSt	ASTM D445		<b>58.6</b>	60.0	62.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0032055 **Received** : 05 Jul 2024  
**Lab Number** : 06229323 **Tested** : 09 Jul 2024  
**Unique Number** : 11112816 **Diagnosed** : 09 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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)

**HAYDEN EXCAVATING**  
 PO BOX 766  
 WAYNESBURG, PA  
 US 15370  
 Contact: ROBBIE  
 rts2577@yahoo.com

T:  
F: