



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**ABNORMAL**  
**NORMAL**



Machine Id  
**1T0850KXJKF347374**  
Component  
**Right Outer Final Drive**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (4 GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0041727</b>	LEC0037758	LEC0030025
Sample Date		Client Info		<b>29 Jun 2023</b>	02 Feb 2023	26 Apr 2022
Machine Age	hrs	Client Info		<b>3603</b>	3124	2510
Oil Age	hrs	Client Info		<b>479</b>	1062	448
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>None</b>	N/A	None
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	<b>123</b>	137	78
Iron	ppm	ASTM D5185m	>500	<b>192</b>	190	83
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185m		<b>1</b>	2	<1
Titanium	ppm	ASTM D5185m		<b>2</b>	2	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>31</b>	28	12
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	1
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

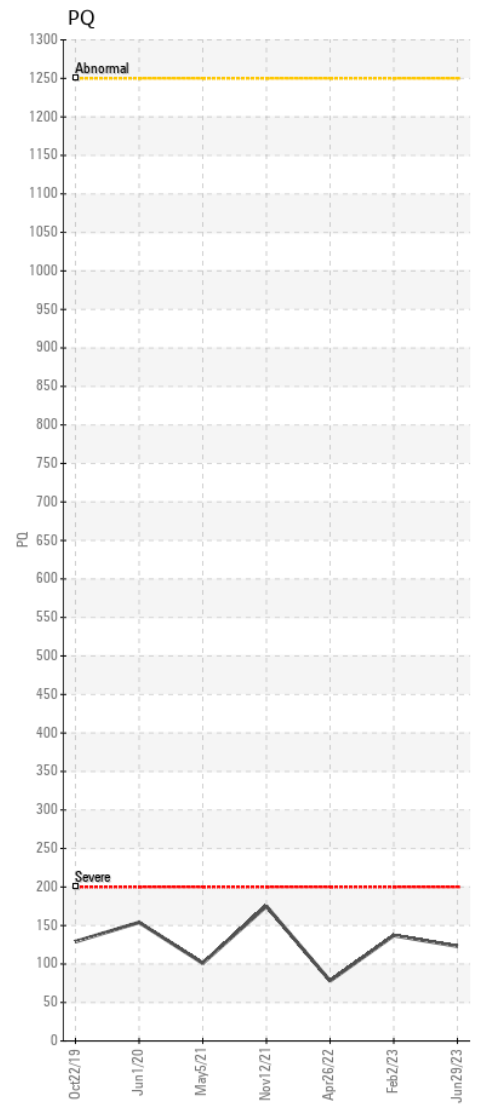
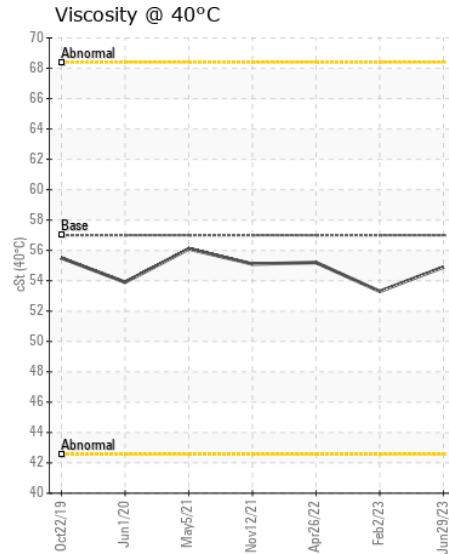
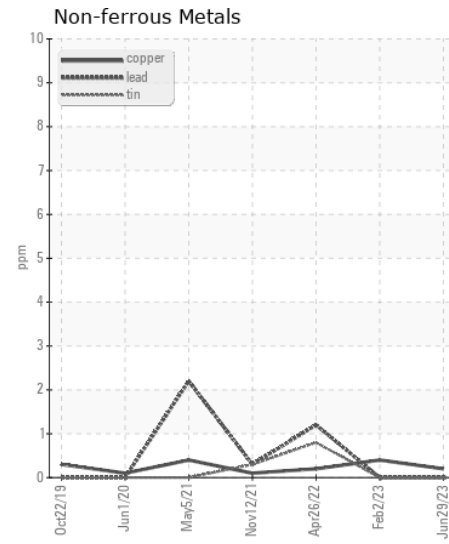
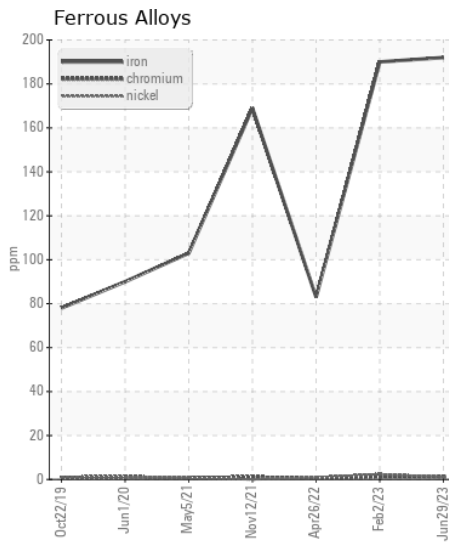
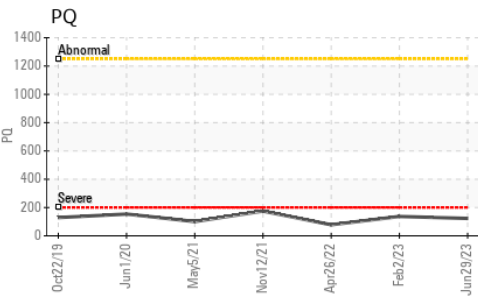
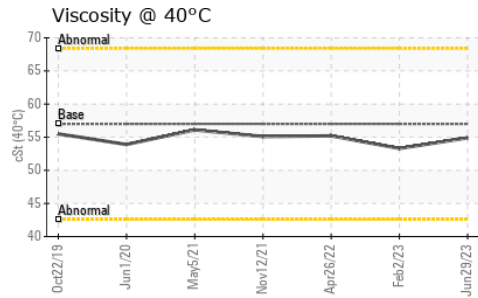
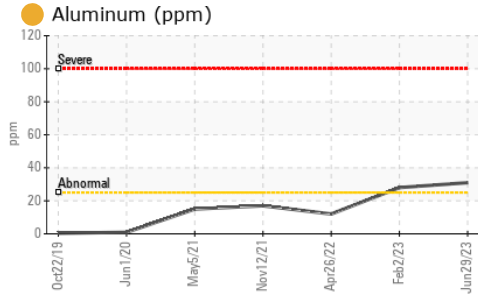
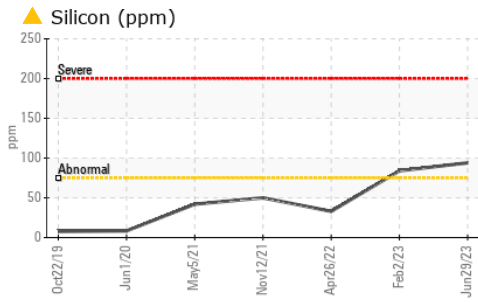
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>94</b>	84	33
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	8	3
Water		WC Method	>0.075	<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	>0.075	<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>2</b>	0	1
Boron	ppm	ASTM D5185m	6	<b>2</b>	6	8
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>2</b>	4	4
Manganese	ppm	ASTM D5185m		<b>2</b>	2	1
Magnesium	ppm	ASTM D5185m	145	<b>109</b>	107	119
Calcium	ppm	ASTM D5185m	3570	<b>3577</b>	3342	3446
Phosphorus	ppm	ASTM D5185m	1290	<b>1044</b>	982	1037
Zinc	ppm	ASTM D5185m	1640	<b>1300</b>	1193	1233
Sulfur	ppm	ASTM D5185m		<b>4632</b>	3177	3216
Visc @ 40°C	cSt	ASTM D445	57.0	<b>54.9</b>	53.3	55.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0041727 **Received** : 03 Jul 2023  
**Lab Number** : 05889386 **Tested** : 05 Jul 2023  
**Unique Number** : 10539869 **Diagnosed** : 06 Jul 2023 - Angela Borella  
**Test Package** : CONST ( Additional Tests: PQ )

**APEX PIPELINE**  
P.O. BOX 580  
NITRO, WV  
US 25143  
Contact: KELLY TUCKER

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)

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