



OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

ATTENTION  
SEVERE  
NORMAL

Area  
**Store 8 - Pikeville [RO#152619]**  
Machine Id  
**JOHN DEERE 160G 1FF160GXAKF057758**  
Component  
**Right Propel Gearbox**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- 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		LEC0051176	LEC0042601	LEC0040610
Sample Date		Client Info		27 Jun 2024	12 Dec 2023	16 May 2023
Machine Age	hrs	Client Info		3105	2500	1890
Oil Age	hrs	Client Info		605	610	551
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	SEVERE

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184		801	397	575
Iron	ppm	ASTM D5185m	>1250	872	494	816
Chromium	ppm	ASTM D5185m	>10	7	4	8
Nickel	ppm	ASTM D5185m	>10	3	<1	2
Titanium	ppm	ASTM D5185m		8	2	8
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m		116	22	118
Lead	ppm	ASTM D5185m		0	<1	0
Copper	ppm	ASTM D5185m		2	<1	<1
Tin	ppm	ASTM D5185m		0	0	2
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

**CONTAMINATION**

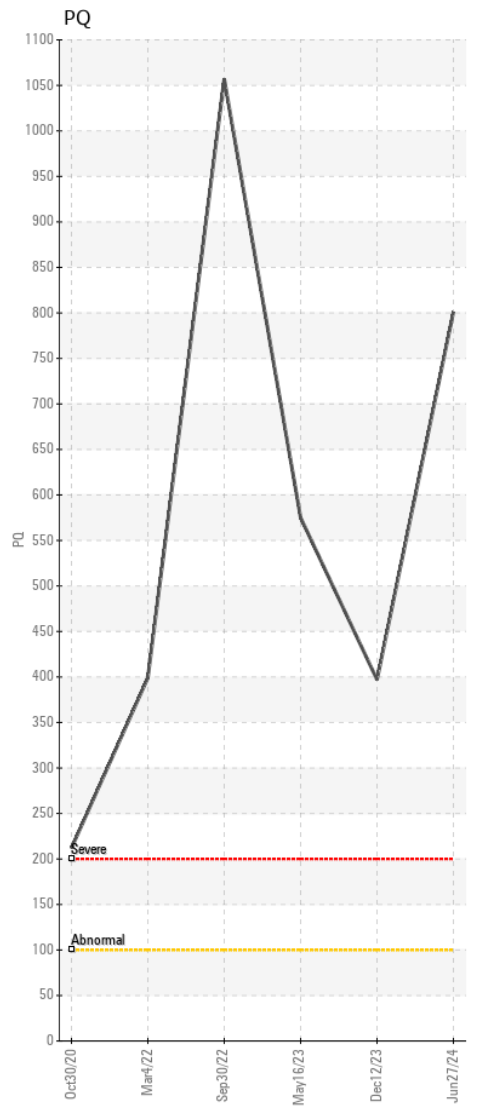
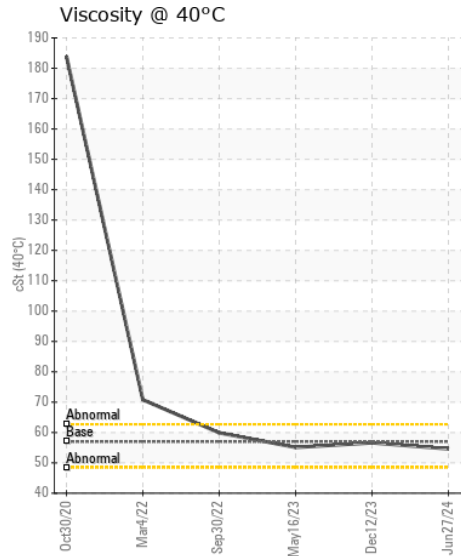
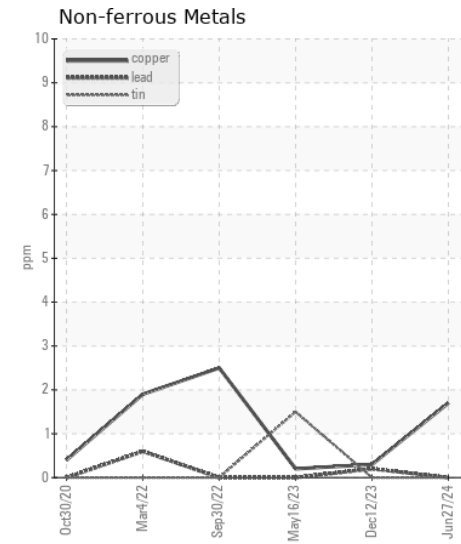
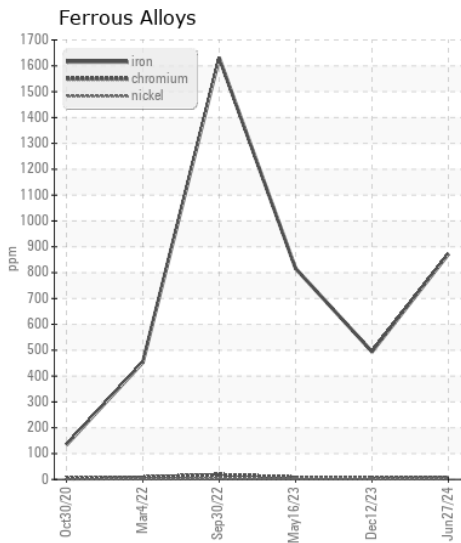
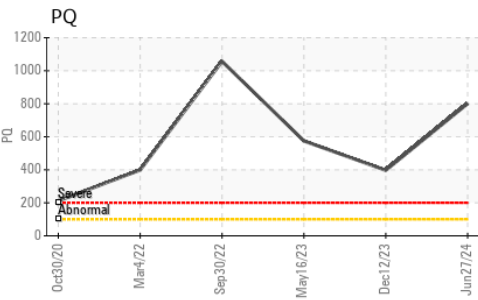
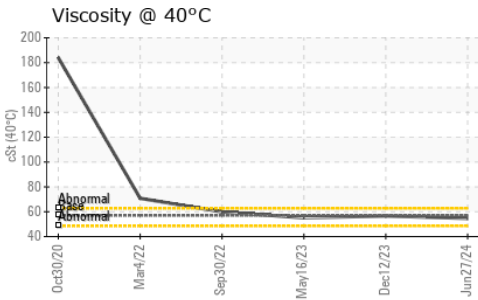
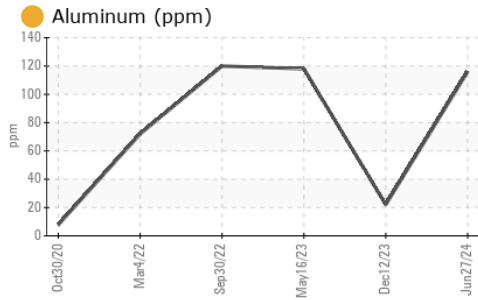
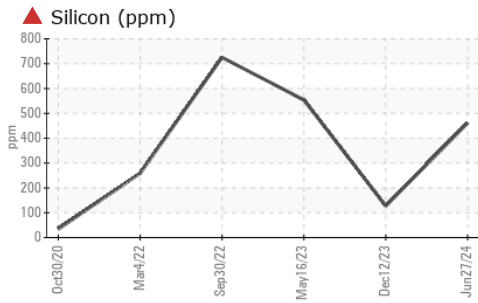
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		461	127	554
Potassium	ppm	ASTM D5185m	>20	31	8	32
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	0.2%

**FLUID CONDITION**

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		5	<1	3
Boron	ppm	ASTM D5185m	6	5	6	3
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	9	4	2
Manganese	ppm	ASTM D5185m		8	4	8
Magnesium	ppm	ASTM D5185m	145	129	122	111
Calcium	ppm	ASTM D5185m	3570	3661	3398	3622
Phosphorus	ppm	ASTM D5185m	1290	1085	1057	1085
Zinc	ppm	ASTM D5185m	1640	1225	1293	1318
Sulfur	ppm	ASTM D5185m		3973	3628	4572
Visc @ 40°C	cSt	ASTM D445	57.0	54.6	56.6	55.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0051176 **Received** : 05 Jul 2024  
**Lab Number** : 06228973 **Tested** : 08 Jul 2024  
**Unique Number** : 11112466 **Diagnosed** : 08 Jul 2024 - Don Baldridge  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendalLeanne@lec1.com

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)

T: (740)373-5570