



# OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 850K 1T0850KXEKF349022**  
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. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

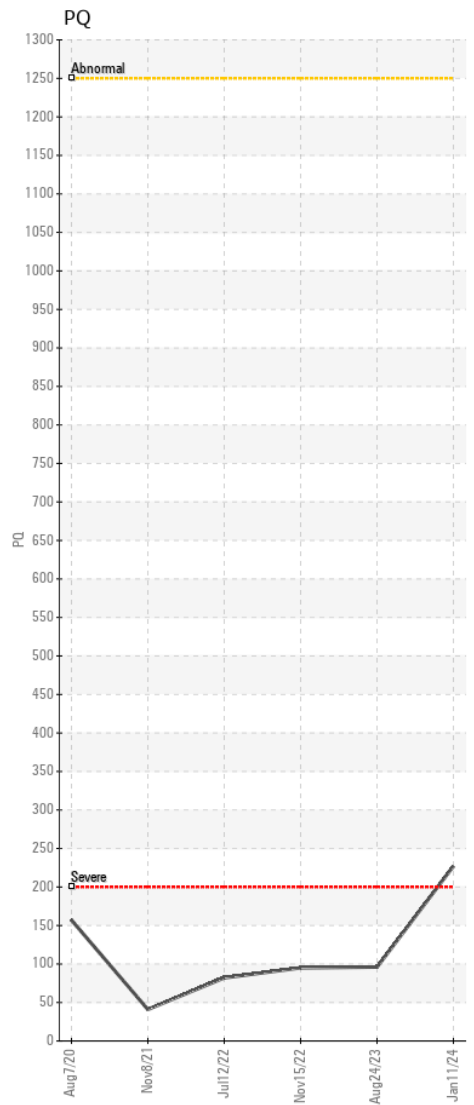
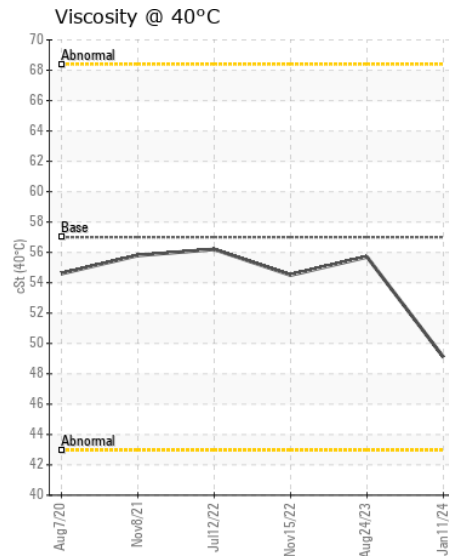
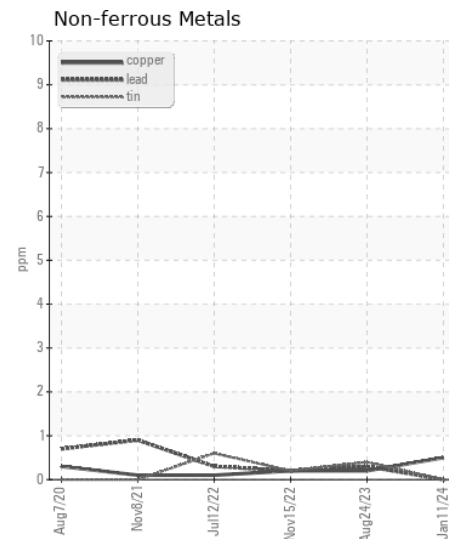
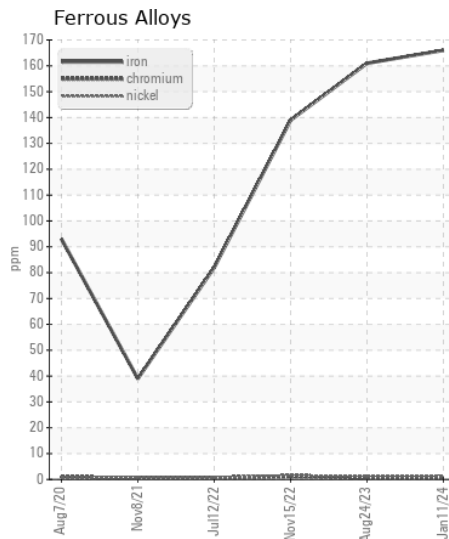
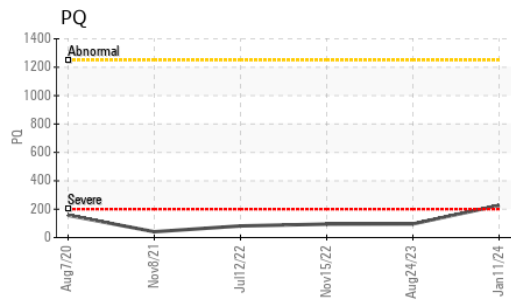
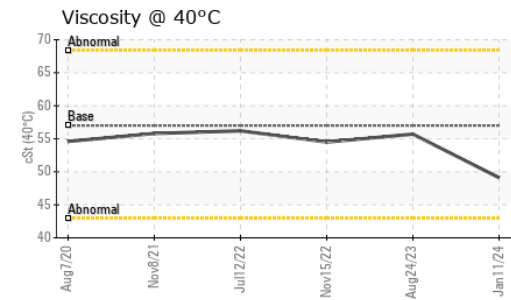
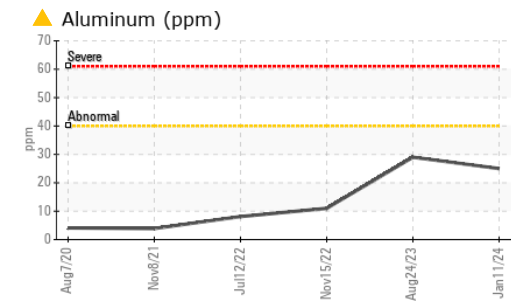
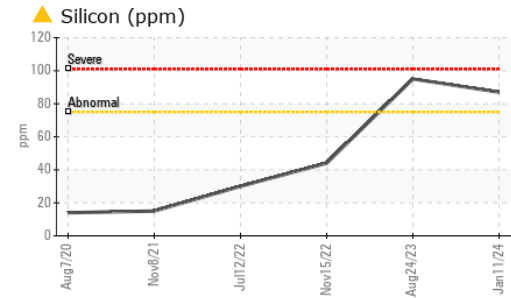
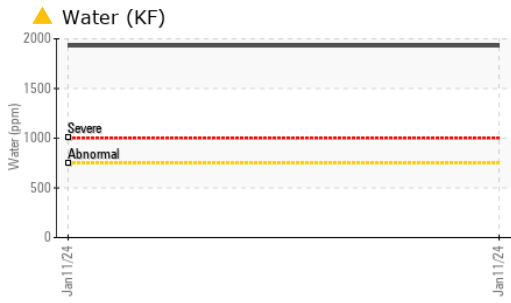
## CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

## FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047227	LEC0044107	LEC0033908
Sample Date		Client Info		11 Jan 2024	24 Aug 2023	15 Nov 2022
Machine Age	hrs	Client Info		2876	2317	1816
Oil Age	hrs	Client Info		1060	501	862
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		None	None	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
PQ		ASTM D8184	>1250	227	96	95
Iron	ppm	ASTM D5185m	>750	166	161	139
Chromium	ppm	ASTM D5185m	>9	<1	<1	1
Nickel	ppm	ASTM D5185m	>10	1	1	2
Titanium	ppm	ASTM D5185m		2	2	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	▲ 25	▲ 29	11
Lead	ppm	ASTM D5185m	>15	0	<1	<1
Copper	ppm	ASTM D5185m	>40	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 87	▲ 95	44
Potassium	ppm	ASTM D5185m	>20	6	6	2
Water	%	ASTM D6304	>0.075	▲ 0.193	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 1930	---	---
Silt	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
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	>0.075	0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	2	2	<1
Boron	ppm	ASTM D5185m	6	0	0	9
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	1	3
Manganese	ppm	ASTM D5185m		1	2	1
Magnesium	ppm	ASTM D5185m	145	109	109	109
Calcium	ppm	ASTM D5185m	3570	3571	3568	3276
Phosphorus	ppm	ASTM D5185m	1290	1088	1036	948
Zinc	ppm	ASTM D5185m	1640	1286	1276	1227
Sulfur	ppm	ASTM D5185m		3790	4237	4095
Visc @ 40°C	cSt	ASTM D445	57.0	49.1	55.7	54.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047227 **Received** : 17 Jan 2024  
**Lab Number** : 06063899 **Diagnosed** : 20 Jan 2024  
**Unique Number** : 10835281 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF, 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)

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendallLeanne@lec1.com  
 T:  
 F: (740)373-5570