



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

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



Area  
**Store 8 - Pikeville [138639]**  
Machine Id  
**JOHN DEERE 250G 1FF250GXALF611602**  
Component  
**Right Propel Gearbox**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (2 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0040197</b>	LEC0037015	LEC0032806
Sample Date		Client Info		<b>03 May 2023</b>	18 Nov 2022	05 Jul 2022
Machine Age	hrs	Client Info		<b>2210</b>	1682	1104
Oil Age	hrs	Client Info		<b>528</b>	578	519
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	None	None
Sample Status				<b>ABNORMAL</b>	ATTENTION	ABNORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>249</b>	117	232
Iron	ppm	ASTM D5185m	>1250	<b>361</b>	198	305
Chromium	ppm	ASTM D5185m	>10	<b>4</b>	3	5
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>4</b>	<1	3
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>▲ 49</b>	17	<b>▲ 46</b>
Lead	ppm	ASTM D5185m		<b>0</b>	0	0
Copper	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185m		<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

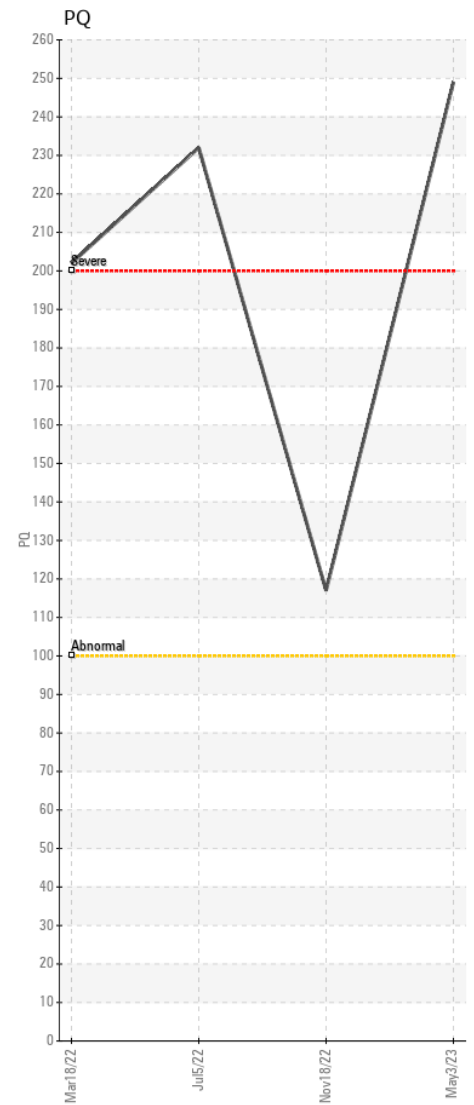
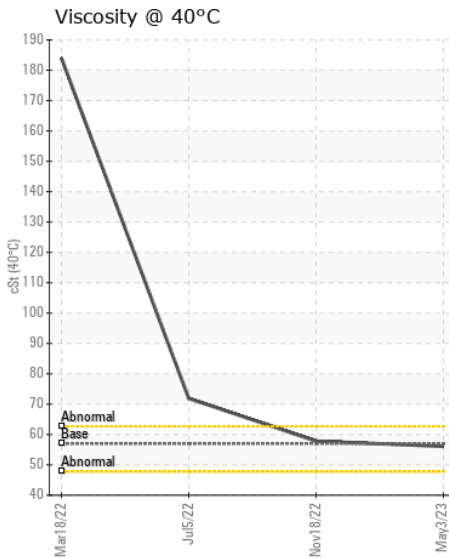
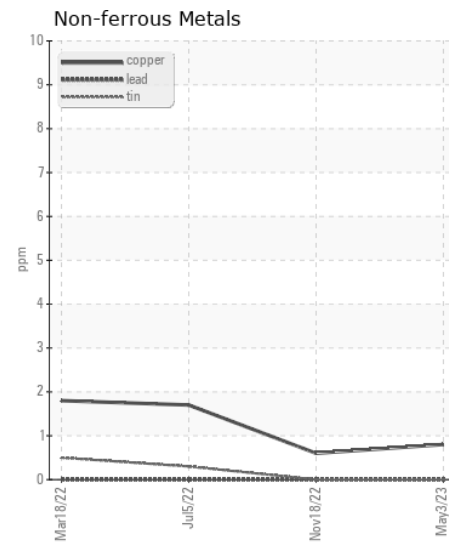
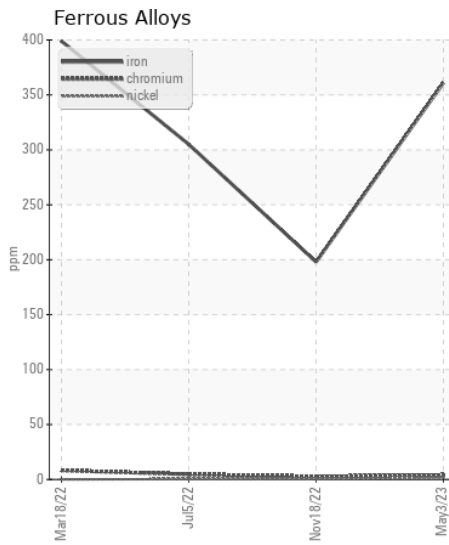
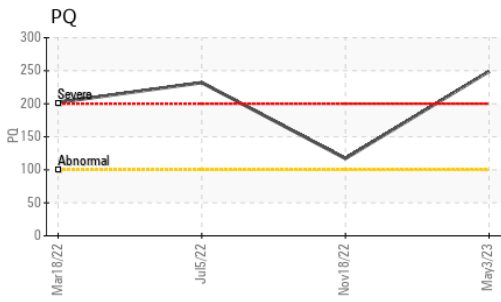
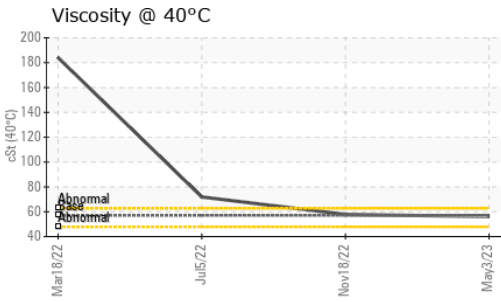
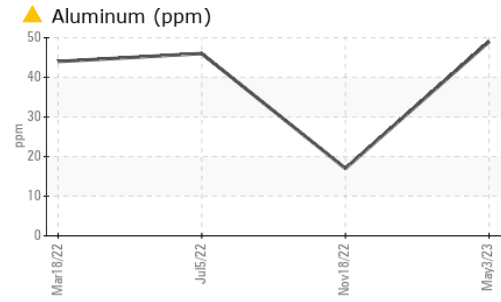
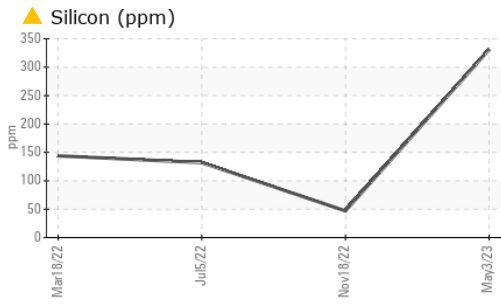
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		<b>▲ 331</b>	47	<b>▲ 132</b>
Potassium	ppm	ASTM D5185m	>20	<b>14</b>	<1	11
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	<b>▲ MODER</b>
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	<1	2
Boron	ppm	ASTM D5185m	6	<b>6</b>	9	41
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	0	<b>4</b>	3	2
Manganese	ppm	ASTM D5185m		<b>4</b>	2	5
Magnesium	ppm	ASTM D5185m	145	<b>110</b>	103	84
Calcium	ppm	ASTM D5185m	3570	<b>3216</b>	3126	2665
Phosphorus	ppm	ASTM D5185m	1290	<b>938</b>	919	877
Zinc	ppm	ASTM D5185m	1640	<b>1206</b>	1153	936
Sulfur	ppm	ASTM D5185m		<b>3351</b>	3964	6858
Visc @ 40°C	cSt	ASTM D445	57.0	<b>56.1</b>	<b>▲ 57.8</b>	<b>▲ 71.9</b>



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0040197 **Received** : 05 May 2023  
**Lab Number** : 05839456 **Diagnosed** : 09 May 2023  
**Unique Number** : 10458259 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
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 F: (740)373-5570

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)