



# OIL ANALYSIS REPORT

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



Area  
**Store 3 - Norton**  
Machine Id  
**JOHN DEERE 748L2 1DW748LBJKF696124**  
Component  
**Rear Differential**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (9 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0047385</b>	LEC0025960	LEC0021817
Sample Date		Client Info		<b>11 Apr 2024</b>	30 Nov 2021	22 Apr 2021
Machine Age	hrs	Client Info		<b>6503</b>	3246	2275
Oil Age	hrs	Client Info		<b>503</b>	971	717
Filter Age	hrs	Client Info		<b>503</b>	971	505
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>90</b>	36	33
Iron	ppm	ASTM D5185m	>1501	<b>149</b>	64	103
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	0	0
Titanium	ppm	ASTM D5185m		<b>1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>5</b>	<1	<1
Lead	ppm	ASTM D5185m	>51	<b>3</b>	2	2
Copper	ppm	ASTM D5185m	>101	<b>19</b>	8	9
Tin	ppm	ASTM D5185m	>10	<b>2</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	LIGHT	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

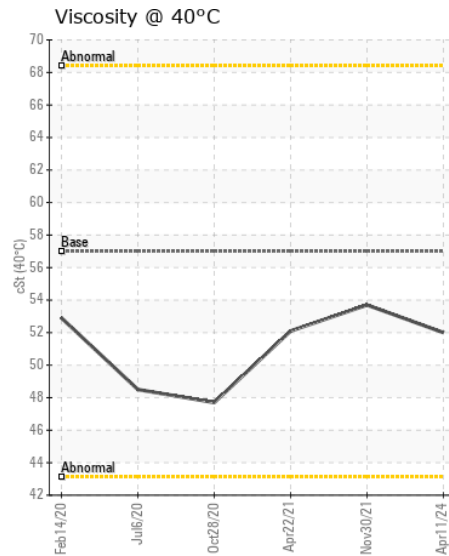
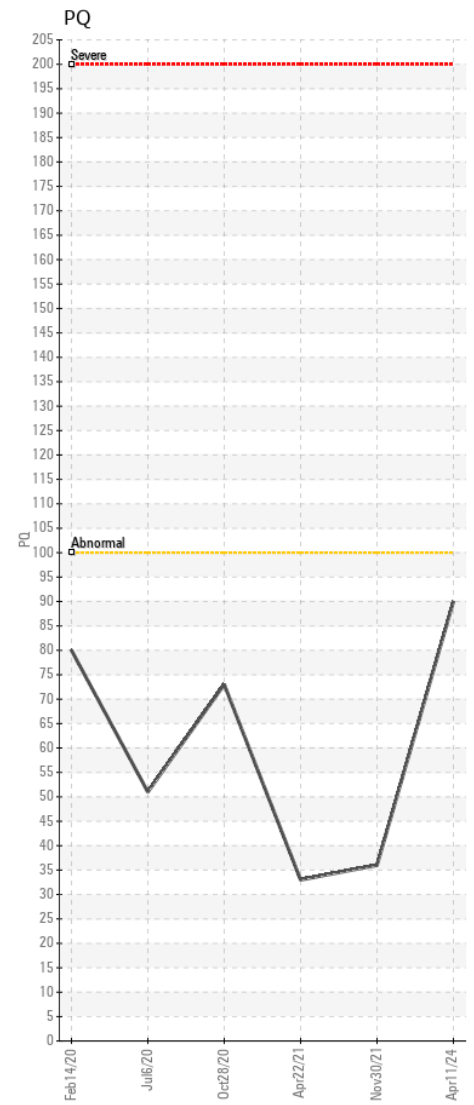
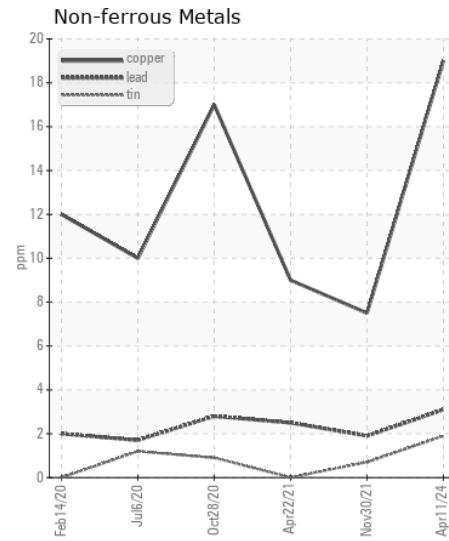
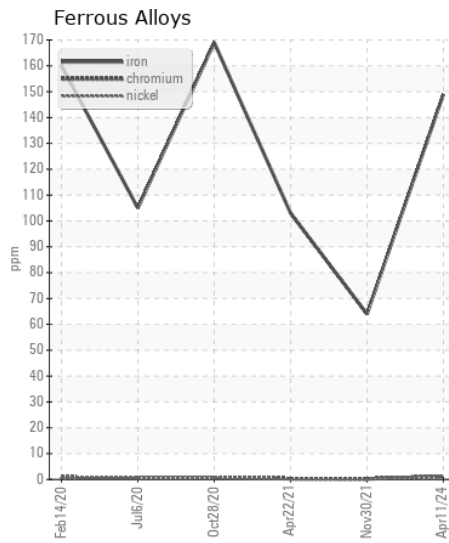
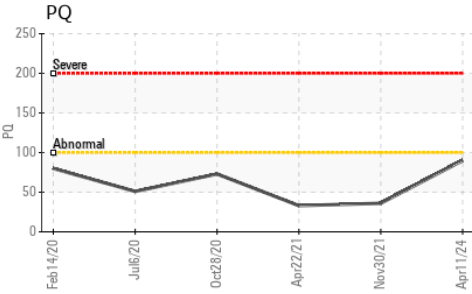
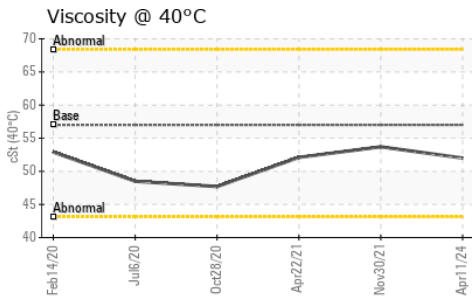
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>11</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</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>2</b>	2	2
Boron	ppm	ASTM D5185m	6	<b>1</b>	<1	5
Barium	ppm	ASTM D5185m	0	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>2</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>3</b>	1	1
Magnesium	ppm	ASTM D5185m	145	<b>109</b>	101	103
Calcium	ppm	ASTM D5185m	3570	<b>3623</b>	3540	3708
Phosphorus	ppm	ASTM D5185m	1290	<b>1017</b>	967	1001
Zinc	ppm	ASTM D5185m	1640	<b>1269</b>	1184	1251
Sulfur	ppm	ASTM D5185m		<b>3670</b>	2929	3197
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.0</b>	53.7	52.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047385 **Received** : 15 Apr 2024  
**Lab Number** : 06149694 **Tested** : 16 Apr 2024  
**Unique Number** : 10979772 **Diagnosed** : 16 Apr 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**FISHER LOGGING**  
 HC 77 BOX 9D  
 BARTOW, WV  
 US 24920  
 Contact:

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:  
F: