



# OIL ANALYSIS REPORT

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

Area  
**[W50811]**  
 Machine Id  
**JOHN DEERE 624L 1DW624PAHMLZ10763**  
 Component  
**Front Differential**  
 Fluid  
**TDH FLUID SAE 75W80 (--- GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0143525</b>	JR0129108	JR0108800
Sample Date		Client Info		<b>14 Oct 2022</b>	27 Apr 2022	08 Nov 2021
Machine Age	hrs	Client Info		<b>1557</b>	3973	460
Oil Age	hrs	Client Info		<b>0</b>	500	0
Filter Age	hrs	Client Info		<b>0</b>	500	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Changed	Not Changd
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR

The copper level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		<b>12</b>	19	27
Iron	ppm	ASTM D5185m	>500	<b>58</b>	<1	70
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m		<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	1	1
Lead	ppm	ASTM D5185m	>25	<b>14</b>	<1	10
Copper	ppm	ASTM D5185m	>100	<b>▲ 296</b>	0	<b>▲ 250</b>
Tin	ppm	ASTM D5185m	>10	<b>3</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

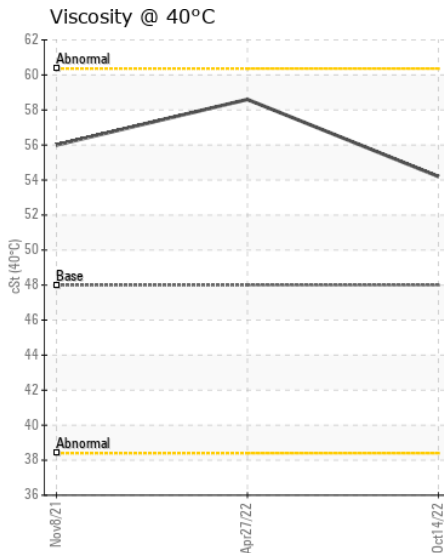
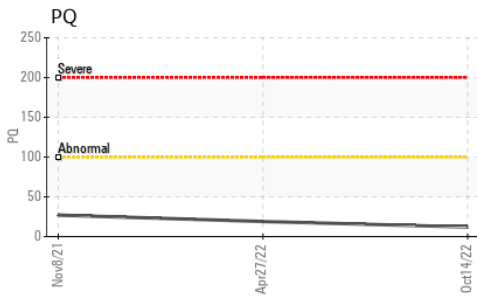
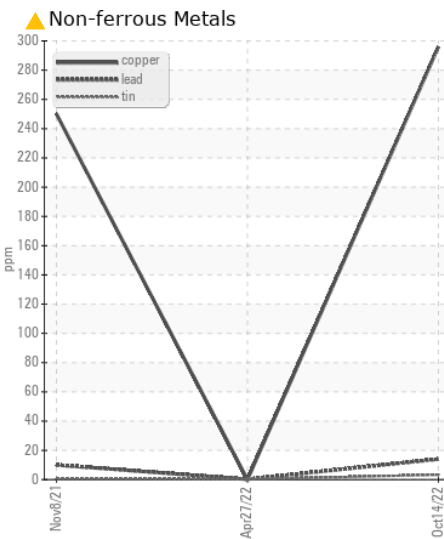
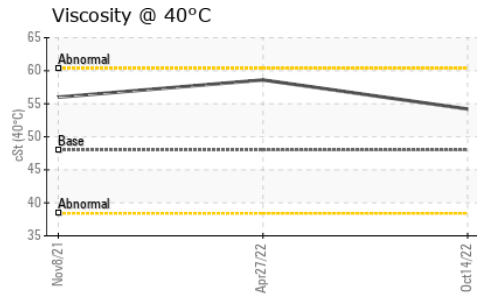
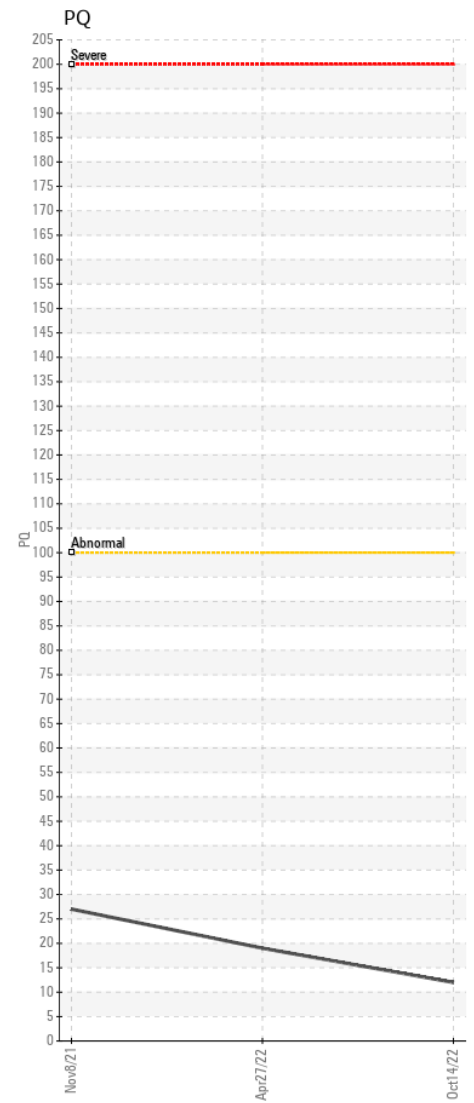
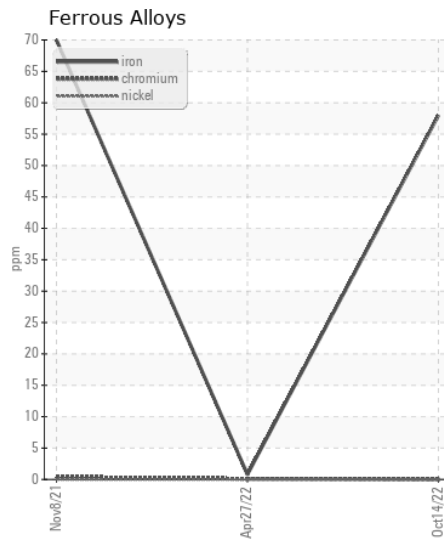
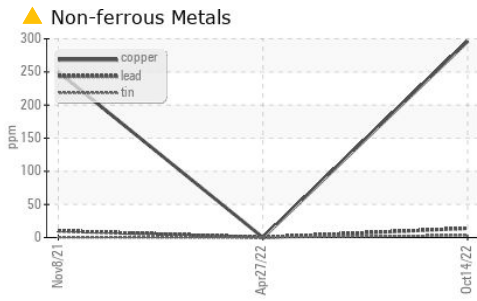
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>4</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	0
Water		WC Method	>.2	<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	>.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>0</b>	<1	6
Boron	ppm	ASTM D5185m	10	<b>3</b>	4	4
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m	10	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	3
Magnesium	ppm	ASTM D5185m	100	<b>85</b>	113	99
Calcium	ppm	ASTM D5185m	3500	<b>3379</b>	3563	3508
Phosphorus	ppm	ASTM D5185m	1150	<b>1067</b>	1054	1057
Zinc	ppm	ASTM D5185m	1150	<b>1233</b>	1214	1228
Sulfur	ppm	ASTM D5185m	5000	<b>4566</b>	3191	3265
Visc @ 40°C	cSt	ASTM D445	48	<b>54.2</b>	58.6	56.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0143525 **Received** : 19 Oct 2022  
**Lab Number** : 05670608 **Tested** : 20 Oct 2022  
**Unique Number** : 10180178 **Diagnosed** : 20 Oct 2022 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269

Contact: CHARLOTTE SHOP  
 myoung@jamesriverequipment.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: (704)597-0211  
 F: (704)596-6198