



WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0143526	JR0129107	JR0108801
Sample Date		Client Info		14 Oct 2022	27 Apr 2022	08 Nov 2021
Machine Age	hrs	Client Info		1557	3973	460
Oil Age	hrs	Client Info		0	500	0
Filter Age	hrs	Client Info		0	500	0
Oil Changed		Client Info		N/A	Changed	Not Changd
Filter Changed		Client Info		N/A	Changed	Not Changd
Sample Status				SEVERE	NORMAL	ABNORMAL

WEAR

Bearing and/or bushing wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		21	19	26
Iron	ppm	ASTM D5185m	>500	207	<1	67
Chromium	ppm	ASTM D5185m	>10	1	0	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	4	1	1
Lead	ppm	ASTM D5185m	>25	151	<1	10
Copper	ppm	ASTM D5185m	>100	552	0	251
Tin	ppm	ASTM D5185m	>10	10	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

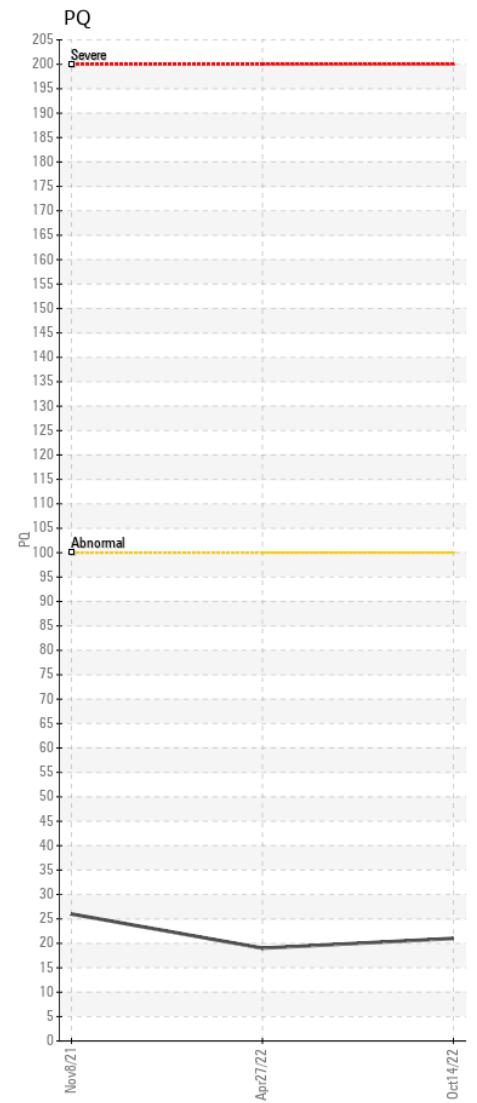
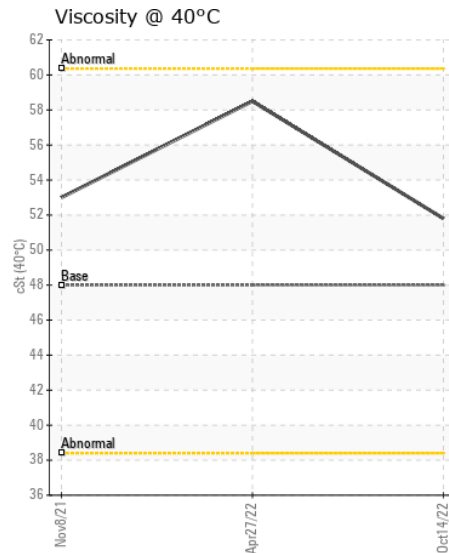
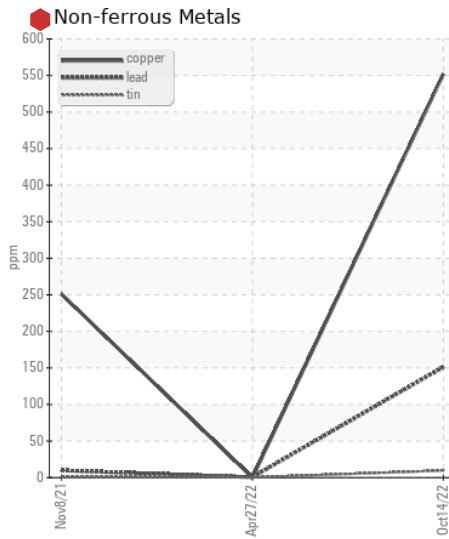
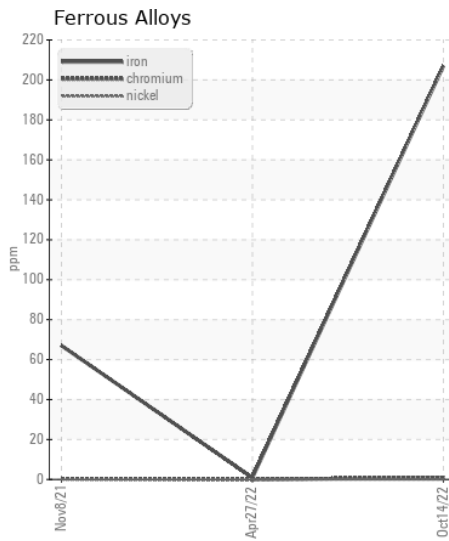
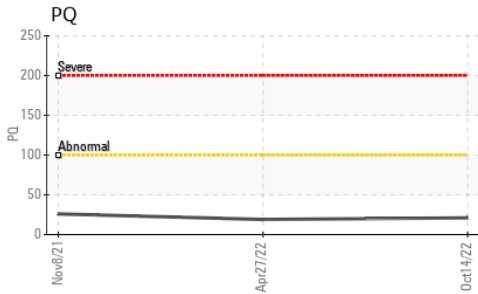
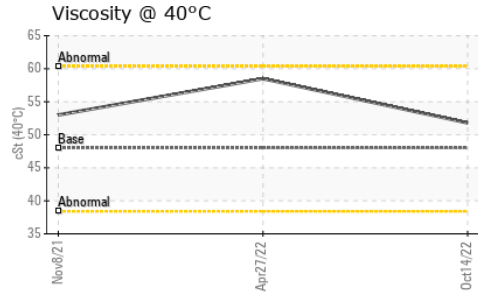
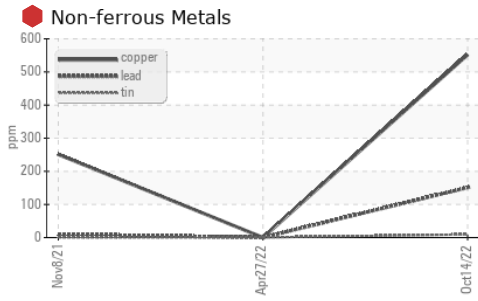
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	11	5	5
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	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	>.2	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		5	<1	7
Boron	ppm	ASTM D5185m	10	3	4	4
Barium	ppm	ASTM D5185m	10	5	0	1
Molybdenum	ppm	ASTM D5185m	10	1	<1	<1
Manganese	ppm	ASTM D5185m		6	<1	3
Magnesium	ppm	ASTM D5185m	100	89	109	94
Calcium	ppm	ASTM D5185m	3500	3362	3616	3404
Phosphorus	ppm	ASTM D5185m	1150	1005	1059	1021
Zinc	ppm	ASTM D5185m	1150	1109	1207	1178
Sulfur	ppm	ASTM D5185m	5000	4321	3299	3102
Visc @ 40°C	cSt	ASTM D445	48	51.8	58.5	53.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0143526 **Received** : 21 Oct 2022
Lab Number : 05672947 **Tested** : 24 Oct 2022
Unique Number : 10182517 **Diagnosed** : 24 Oct 2022 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)