



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W64224]
 Machine Id
JOHN DEERE 624L 1DW624LZVKF696392
 Component
Rear Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (5 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: W64224)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0204175	JR0177350	JR0177311
Sample Date		Client Info		22 Feb 2024	29 Aug 2023	17 Aug 2023
Machine Age	hrs	Client Info		7960	8420	6945
Oil Age	hrs	Client Info		7960	5770	4295
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

The lead level has decreased, but is still abnormal. All other component wear rates are normal.

PQ		ASTM D8184		14	18	11
Iron	ppm	ASTM D5185m	>500	40	72	5
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	<1
Lead	ppm	ASTM D5185m	>25	▲ 49	▲ 112	<1
Copper	ppm	ASTM D5185m	>100	10	23	0
Tin	ppm	ASTM D5185m	>10	<1	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

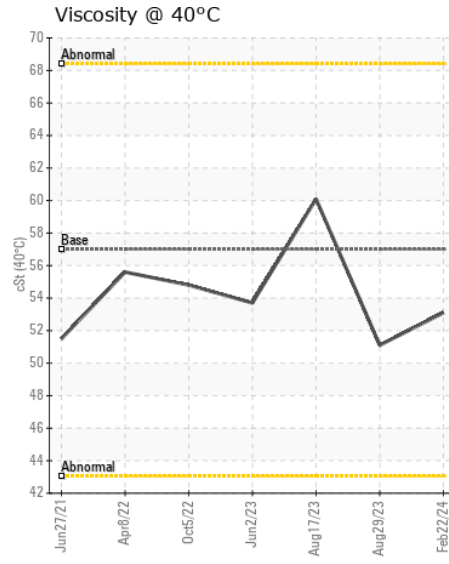
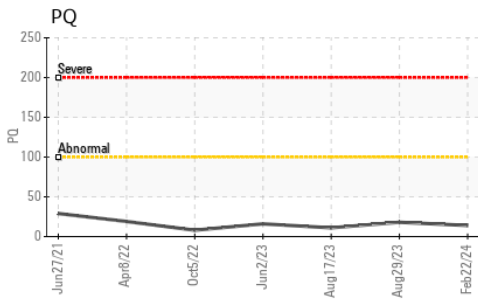
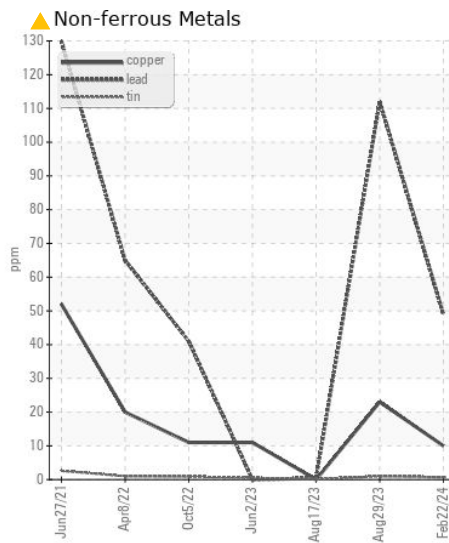
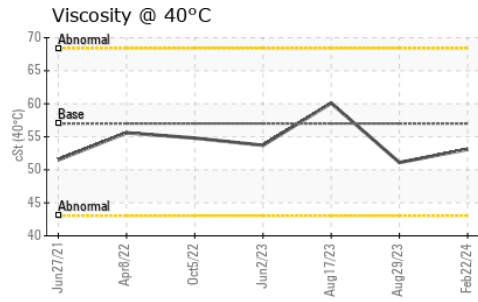
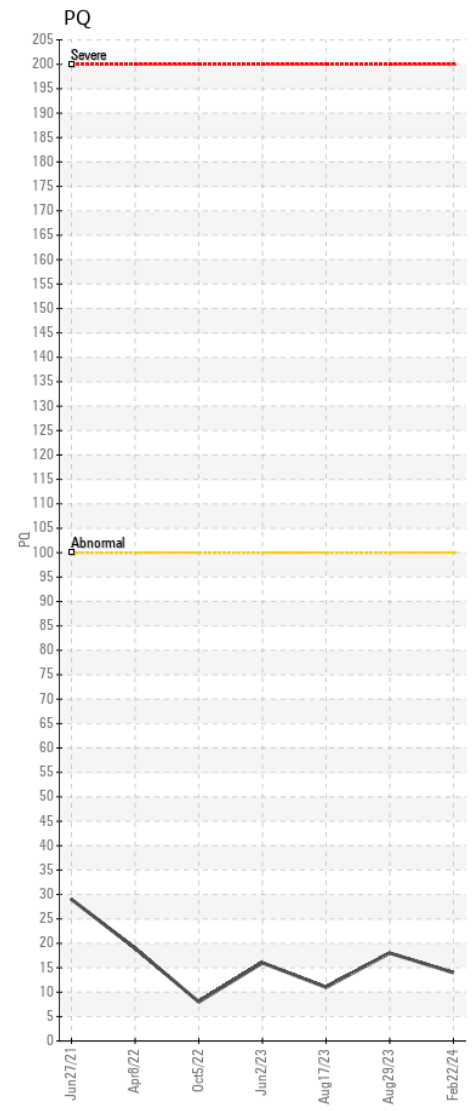
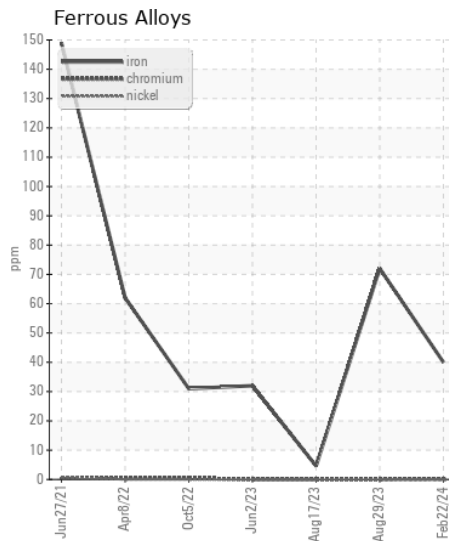
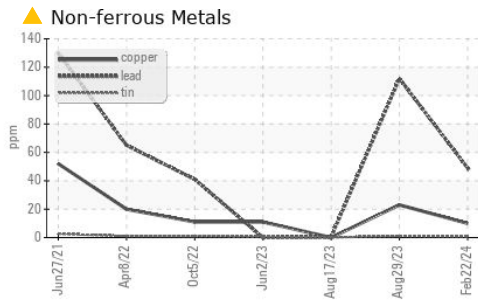
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	4	4	6
Potassium	ppm	ASTM D5185m	>20	1	<1	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	4	0
Boron	ppm	ASTM D5185m	6	1	0	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	95	89	98
Calcium	ppm	ASTM D5185m	3570	3280	3021	3279
Phosphorus	ppm	ASTM D5185m	1290	1071	974	931
Zinc	ppm	ASTM D5185m	1640	1215	1111	1152
Sulfur	ppm	ASTM D5185m		3675	4172	4122
Visc @ 40°C	cSt	ASTM D445	57.0	53.1	51.1	60.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204175 **Received** : 27 Feb 2024
Lab Number : 06101952 **Tested** : 28 Feb 2024
Unique Number : 10900182 **Diagnosed** : 29 Feb 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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Certificate L2367
 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)