



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W65770]

Machine Id
JOHN DEERE 524 P 1DW524PAPNLT13387

Component
Front Differential

Fluid
JOHN DEERE HY-GARD HYD/TRANS (5 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: W65770)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206793	JR0178130	JR0155670
Sample Date		Client Info		15 Apr 2024	07 Sep 2023	15 Dec 2022
Machine Age	hrs	Client Info		1452	1010	441
Oil Age	hrs	Client Info		1452	1010	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Not Changd	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Bearing and/or bushing wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		33	25	22
Iron	ppm	ASTM D5185m	>500	131	126	64
Chromium	ppm	ASTM D5185m	>10	2	<1	<1
Nickel	ppm	ASTM D5185m	>10	2	1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	1	2	<1
Lead	ppm	ASTM D5185m	>25	▲ 65	▲ 70	0
Copper	ppm	ASTM D5185m	>100	▲ 308	▲ 283	<1
Tin	ppm	ASTM D5185m	>10	3	2	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

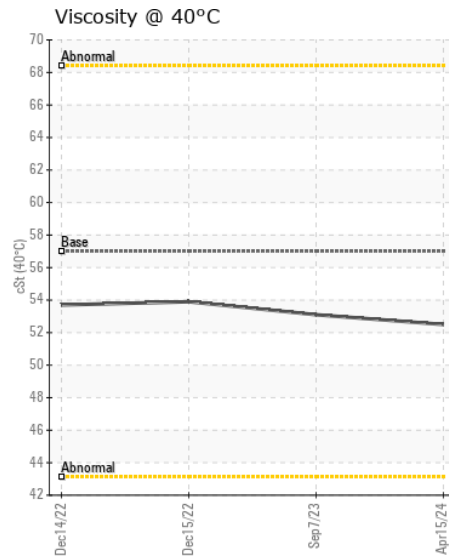
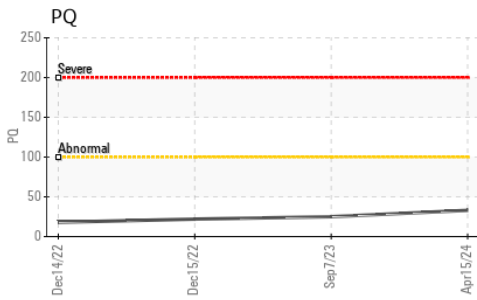
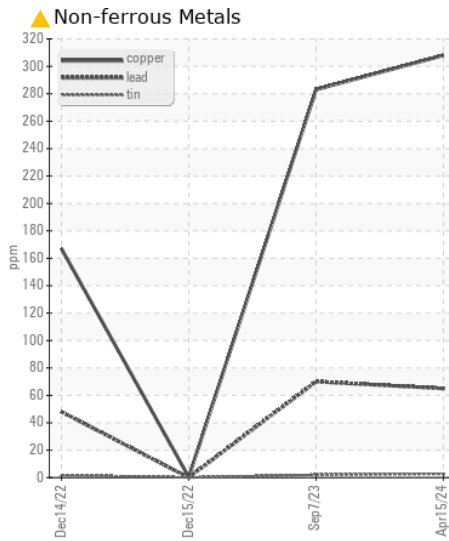
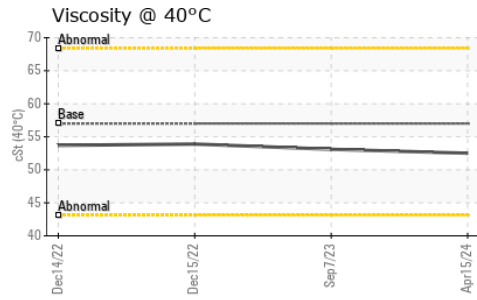
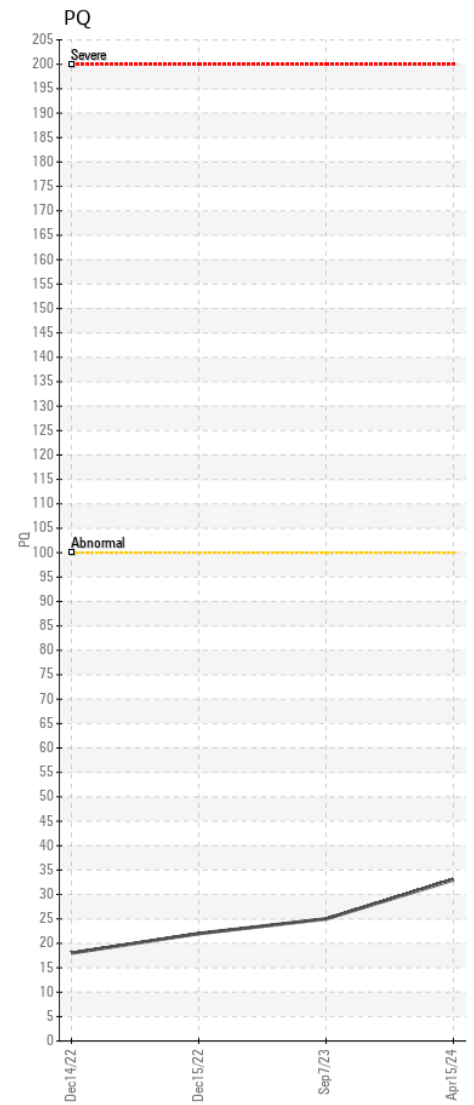
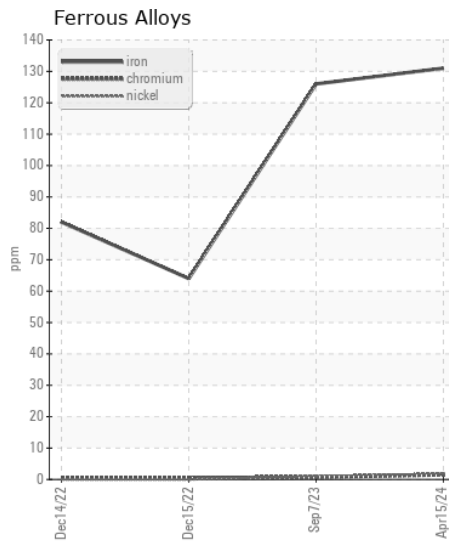
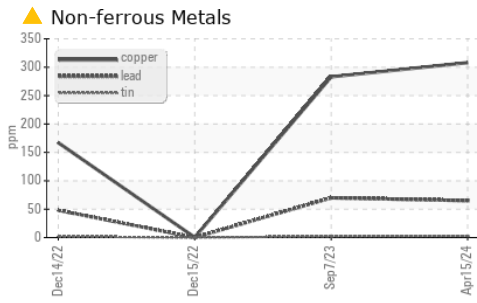
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	8	7	2
Potassium	ppm	ASTM D5185m	>20	3	<1	<1
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 condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		4	6	0
Boron	ppm	ASTM D5185m	6	1	2	8
Barium	ppm	ASTM D5185m	0	4	5	0
Molybdenum	ppm	ASTM D5185m	0	2	0	<1
Manganese	ppm	ASTM D5185m		4	3	<1
Magnesium	ppm	ASTM D5185m	145	86	101	0
Calcium	ppm	ASTM D5185m	3570	3242	3623	11
Phosphorus	ppm	ASTM D5185m	1290	1147	1077	394
Zinc	ppm	ASTM D5185m	1640	1181	1265	9
Sulfur	ppm	ASTM D5185m		4790	4447	22005
Visc @ 40°C	cSt	ASTM D445	57.0	52.5	53.1	53.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206793 **Received** : 17 Apr 2024
Lab Number : 06152299 **Tested** : 19 Apr 2024
Unique Number : 10982377 **Diagnosed** : 22 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

CARLTON'S BACKHOE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269
 Contact: LEO

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)547-0211

F: