



WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
[W65770]

Machine Id
JOHN DEERE 524 P 1DW524PAPNLT13387

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (20 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Top Up Amount: 2 GALLONS W65770)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206791	JR0178128	JR0155673
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		Oil Added	Not Changd	N/A
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	2	2	<1
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
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	>10	<1	1	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

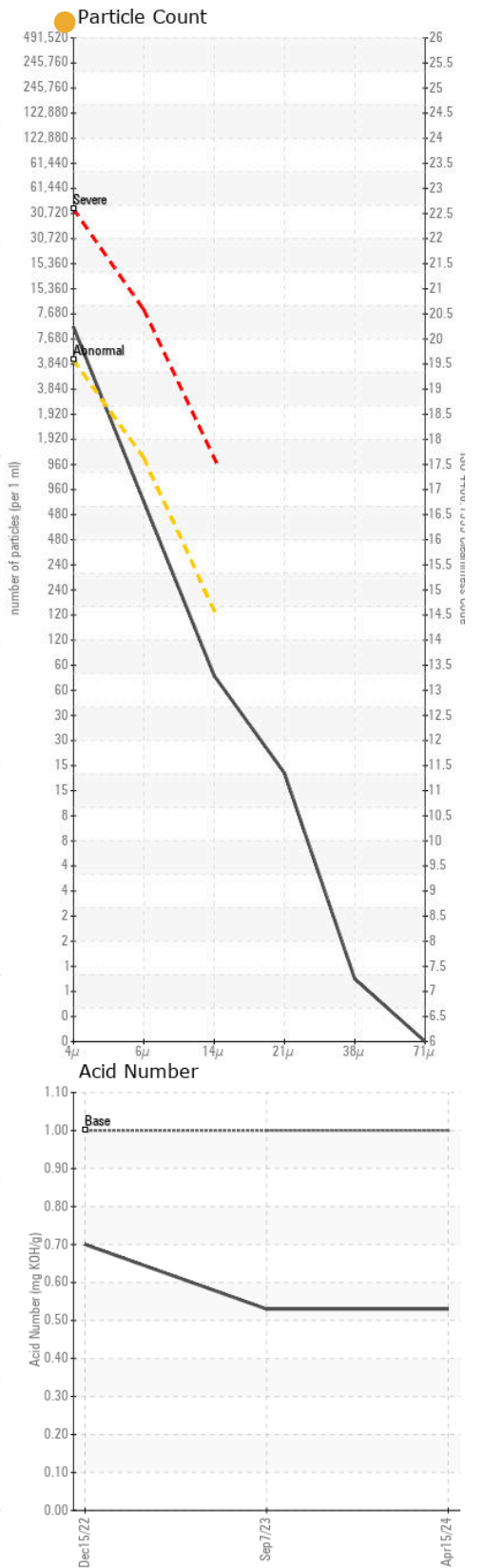
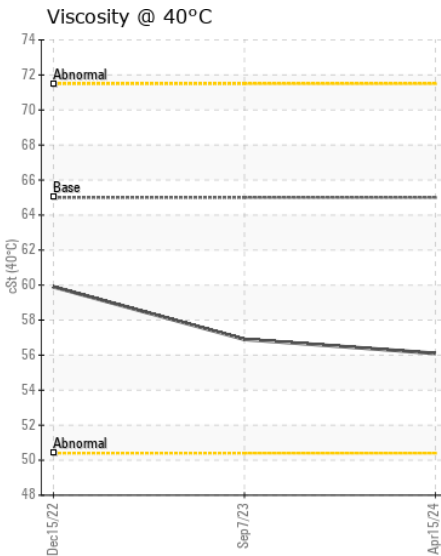
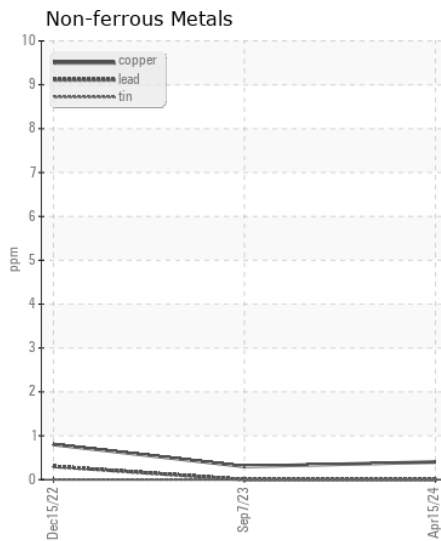
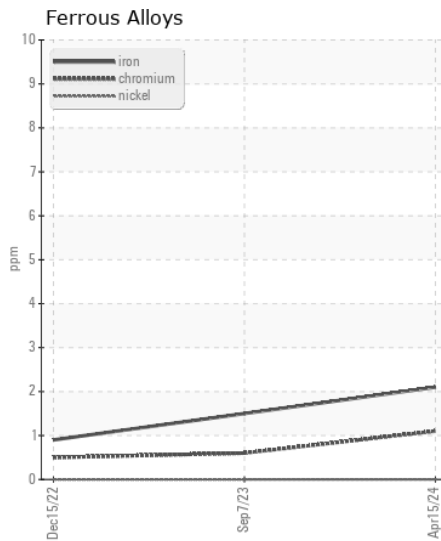
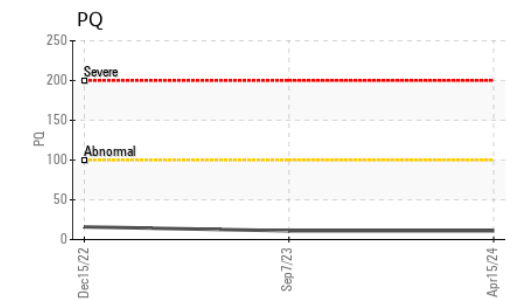
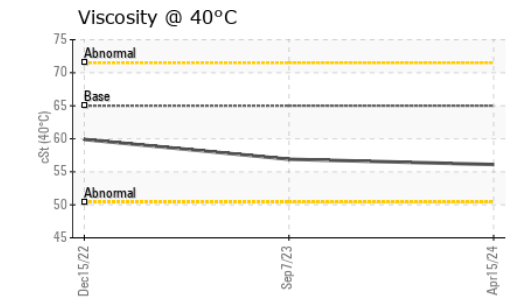
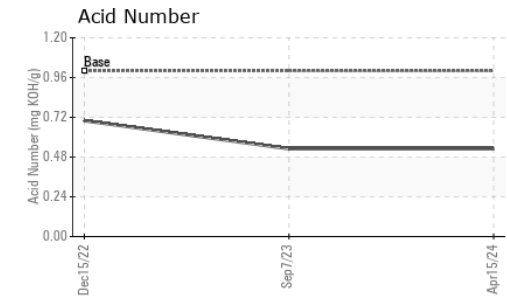
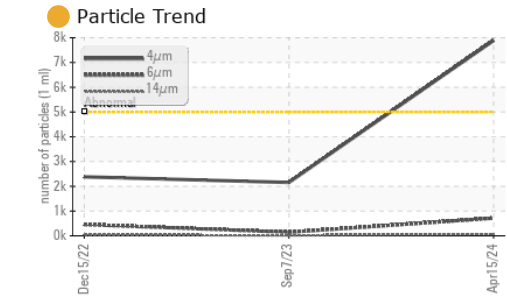
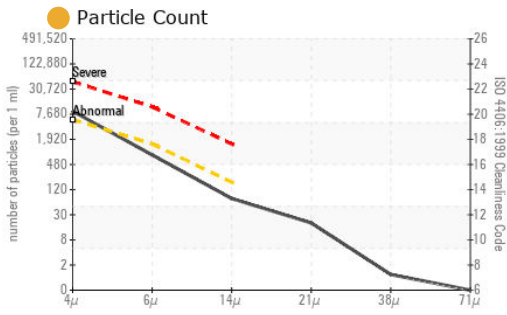
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<1	1	<1
Potassium	ppm	ASTM D5185m	>20	9	2	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	7889	2155	2383
Particles >6µm		ASTM D7647	>1300	714	145	456
Particles >14µm		ASTM D7647	>160	65	15	35
Particles >21µm		ASTM D7647	>40	17	4	9
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/17/13	18/14/11	18/16/12
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	2	3
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		1	1	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		3	3	2
Calcium	ppm	ASTM D5185m	87	84	100	87
Phosphorus	ppm	ASTM D5185m	727	524	605	579
Zinc	ppm	ASTM D5185m	900	644	815	753
Sulfur	ppm	ASTM D5185m	1500	1521	1909	1732
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.53	0.53	0.70
Visc @ 40°C	cSt	ASTM D445	65	56.1	56.9	59.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206791 **Received** : 17 Apr 2024
Lab Number : 06151891 **Tested** : 18 Apr 2024
Unique Number : 10981969 **Diagnosed** : 19 Apr 2024 - Don Baldrige
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: