



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[W63110]

Machine Id

JOHN DEERE 524L 1DW524LZKKF701078

Component

Hydraulic System

Fluid

JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W63110)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0198592	JR0172051	JR0151403
Sample Date		Client Info		16 Jan 2024	05 Jun 2023	01 Dec 2022
Machine Age	hrs	Client Info		4508	4508	4032
Oil Age	hrs	Client Info		4032	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		12	17	10
Iron	ppm	ASTM D5185m	>20	2	2	4
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	0	2
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	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

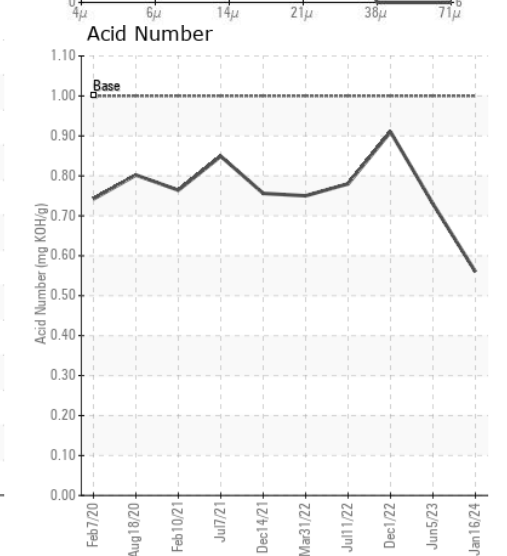
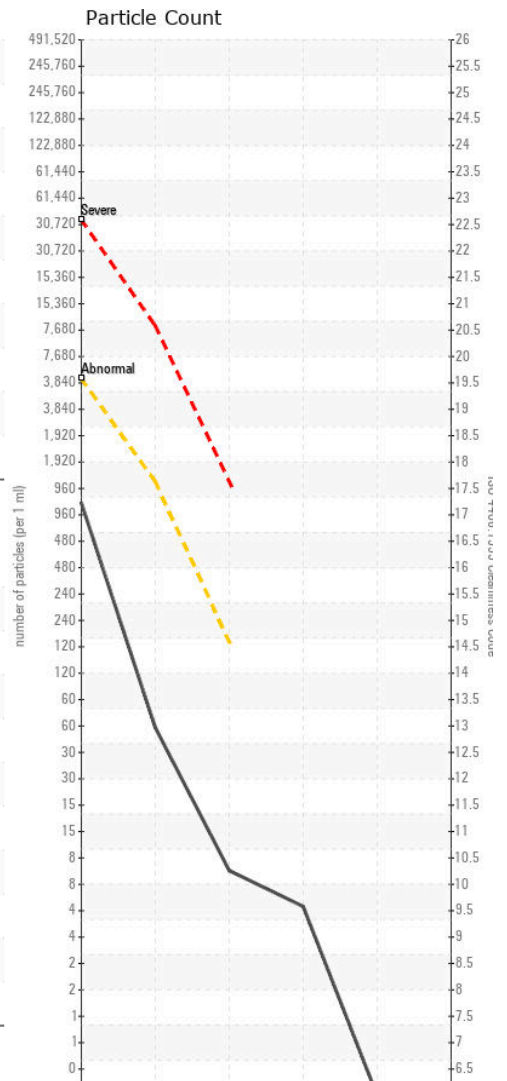
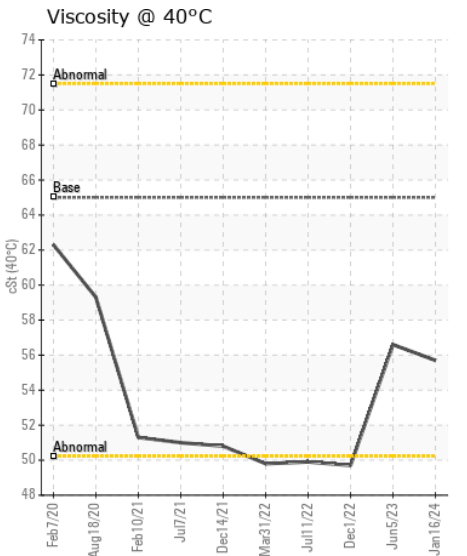
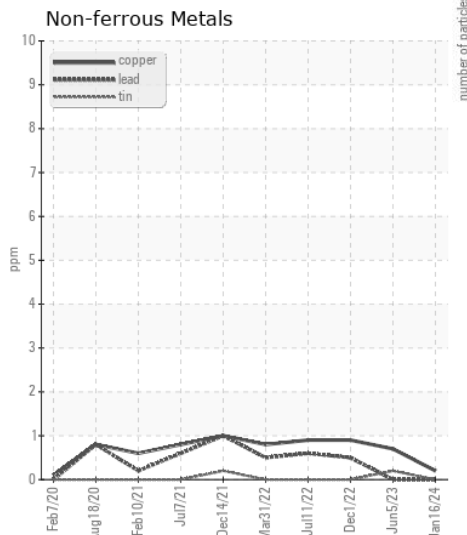
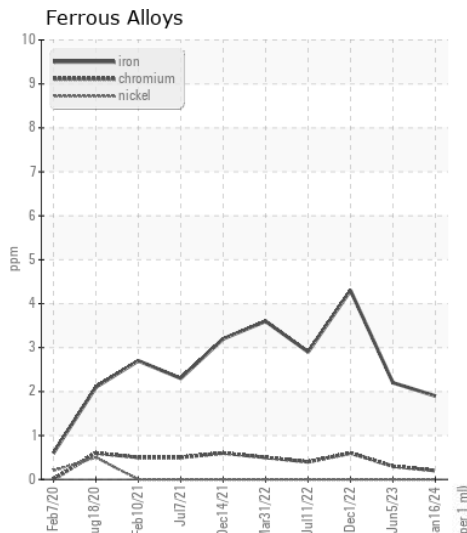
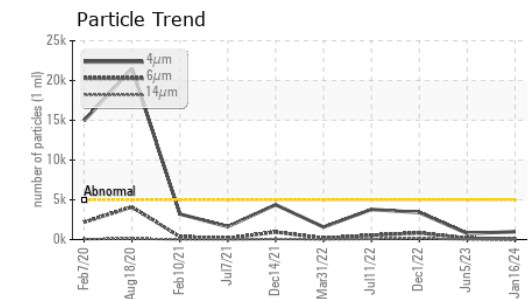
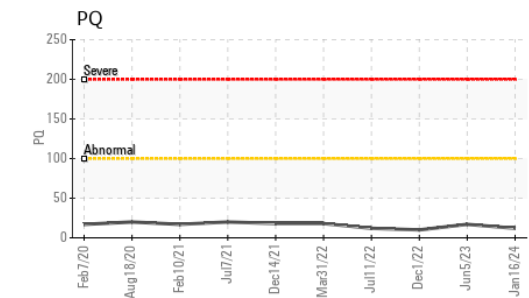
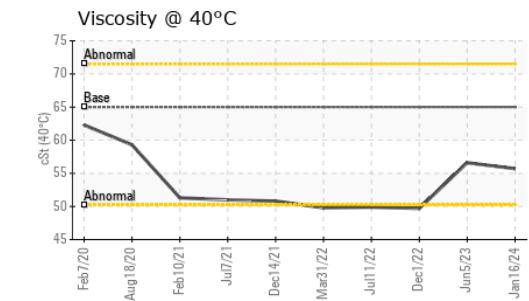
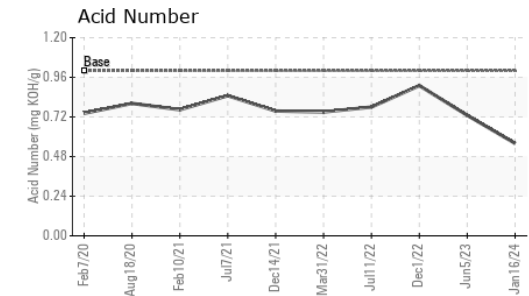
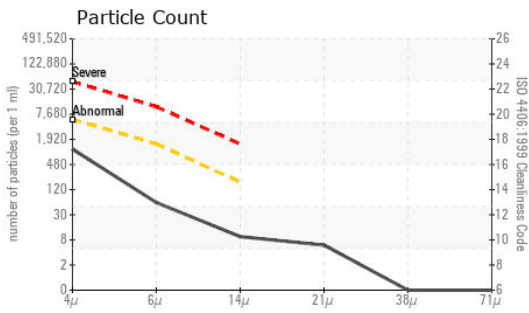
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Silicon	ppm	ASTM D5185m	>20	2	2	4
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	985	768	3405
Particles >6µm		ASTM D7647	>1300	52	175	840
Particles >14µm		ASTM D7647	>160	8	12	116
Particles >21µm		ASTM D7647	>40	5	1	22
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/13/10	17/15/11	19/17/14
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		3	3	4
Boron	ppm	ASTM D5185m		8	9	19
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	3	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		21	20	29
Calcium	ppm	ASTM D5185m	87	461	452	1024
Phosphorus	ppm	ASTM D5185m	727	694	712	677
Zinc	ppm	ASTM D5185m	900	839	888	848
Sulfur	ppm	ASTM D5185m	1500	1807	2186	2279
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.56	0.73	0.91
Visc @ 40°C	cSt	ASTM D445	65	55.7	56.6	49.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0198592 **Received** : 18 Jan 2024
Lab Number : 06064216 **Diagnosed** : 28 Jan 2024
Unique Number : 10835598 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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)

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