



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W63110]
 Machine Id
JOHN DEERE 524L 1DW524LZKKF701078
 Component
Front Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- 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		JR0198595	JR0172053	JR0151406
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	13	10
Iron	ppm	ASTM D5185m	>500	116	16	58
Chromium	ppm	ASTM D5185m	>10	1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	0	1
Lead	ppm	ASTM D5185m	>25	20	12	41
Copper	ppm	ASTM D5185m	>100	9	6	17
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

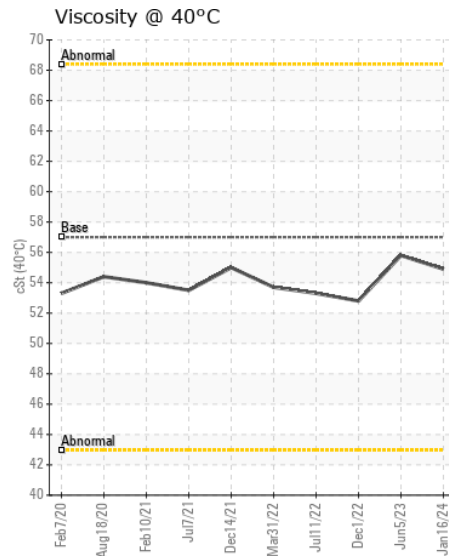
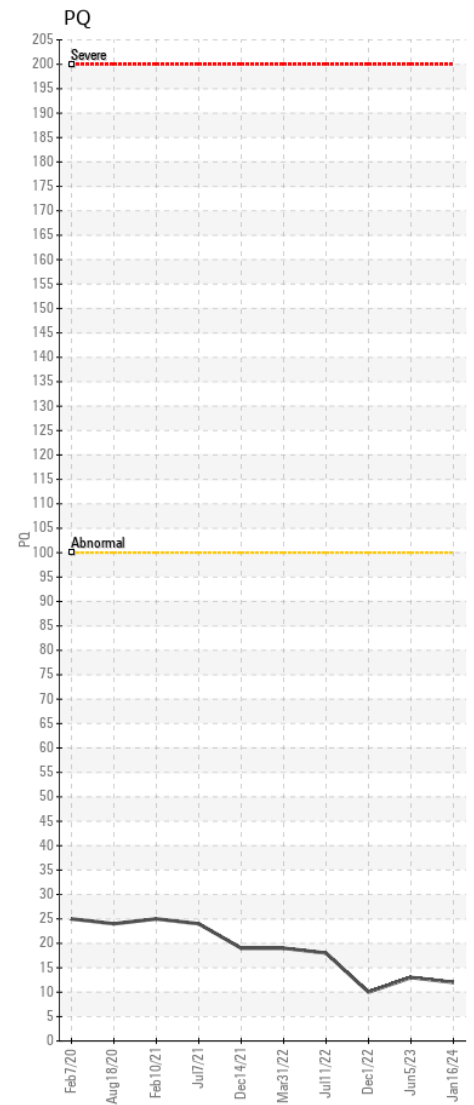
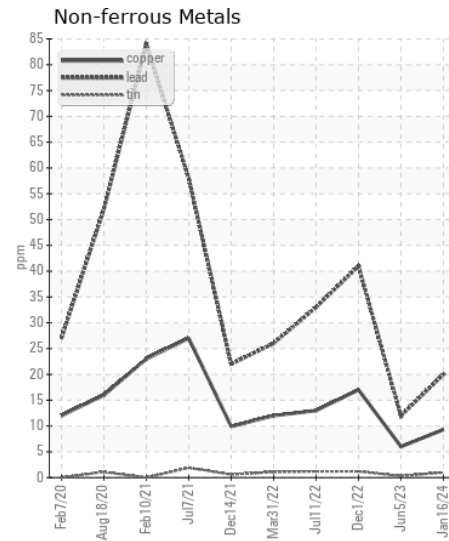
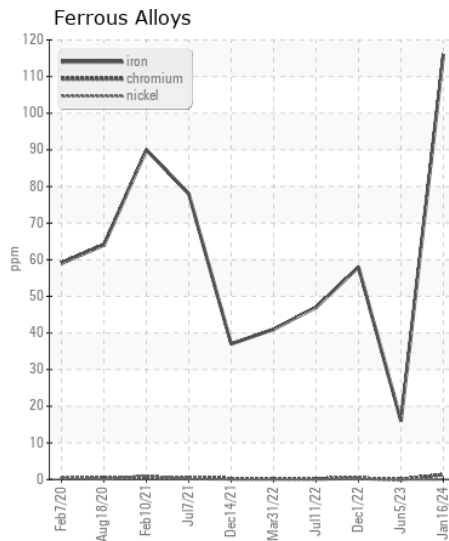
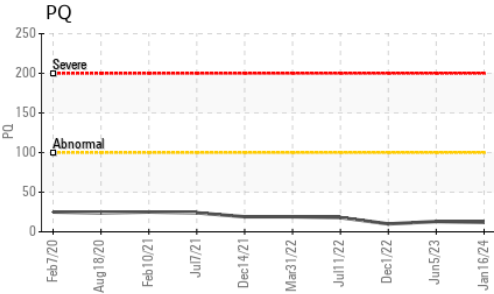
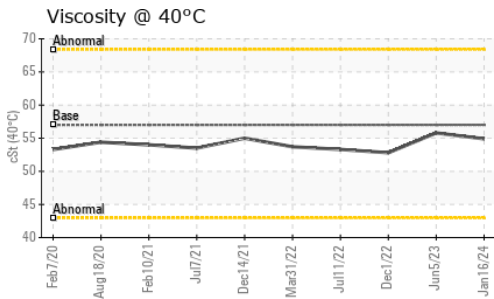
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	29	3	4
Potassium	ppm	ASTM D5185m	>20	<1	2	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 condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		2	0	3
Boron	ppm	ASTM D5185m	6	2	0	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	1
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	145	101	94	92
Calcium	ppm	ASTM D5185m	3570	3452	3693	3425
Phosphorus	ppm	ASTM D5185m	1290	1066	1044	930
Zinc	ppm	ASTM D5185m	1640	1265	1248	1113
Sulfur	ppm	ASTM D5185m		4615	3798	3820
Visc @ 40°C	cSt	ASTM D445	57.0	54.9	55.8	52.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0198595 **Received** : 18 Jan 2024
Lab Number : 06064511 **Diagnosed** : 21 Jan 2024
Unique Number : 10835893 **Diagnostician** : 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)