



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W63110]
 Machine Id
JOHN DEERE 524L 1DW524LZKKF701078
 Component
Brake
 Fluid
JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (--- 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		JR0198594	JR0151404	JR0134607
Sample Date		Client Info		16 Jan 2024	01 Dec 2022	11 Jul 2022
Machine Age	hrs	Client Info		4508	4032	3508
Oil Age	hrs	Client Info		476	0	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		21	11	22
Iron	ppm	ASTM D5185m	>350	31	23	16
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>8	3	1	2
Lead	ppm	ASTM D5185m	>10	2	1	<1
Copper	ppm	ASTM D5185m	>150	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

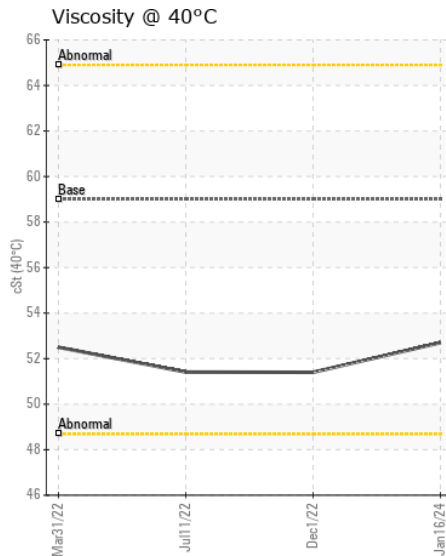
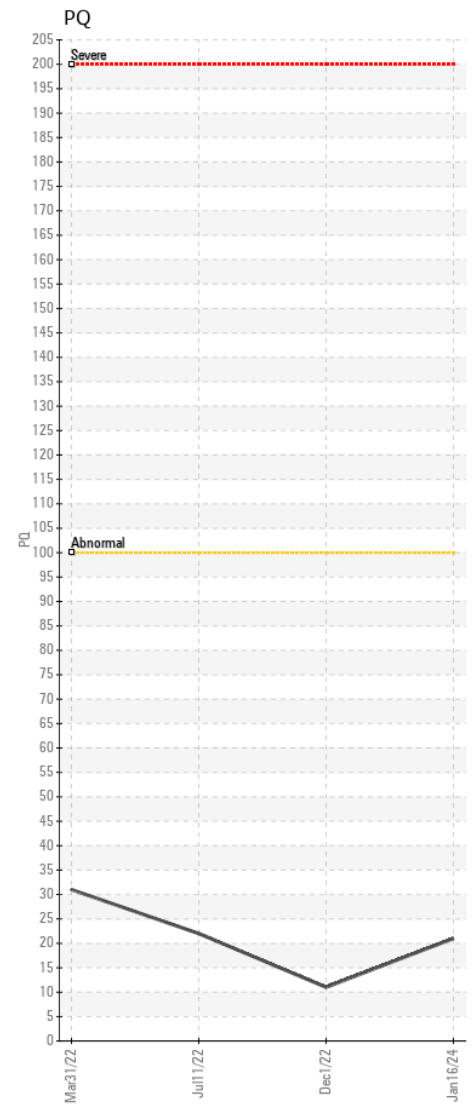
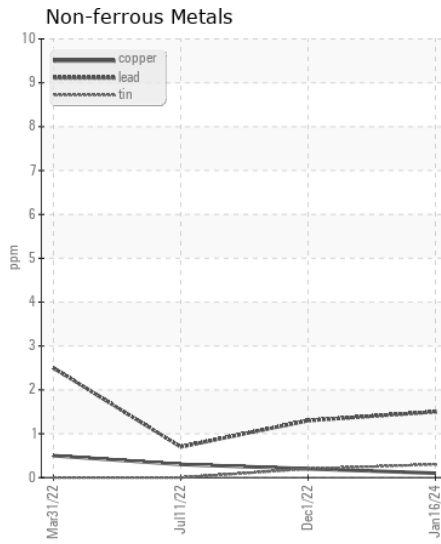
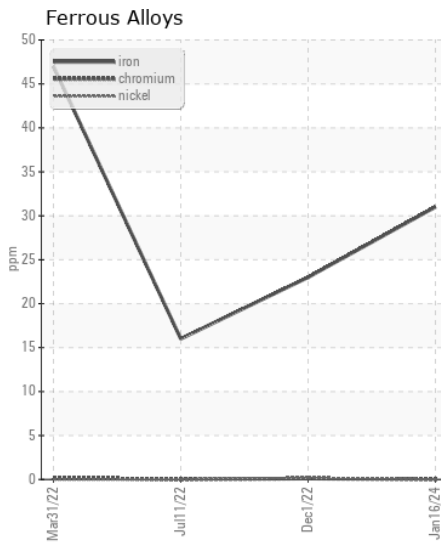
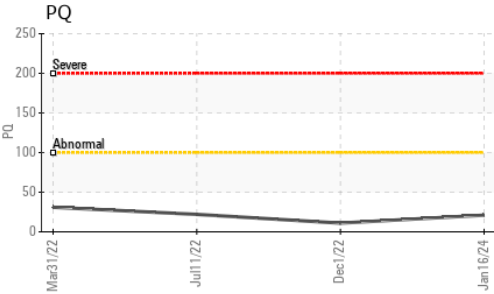
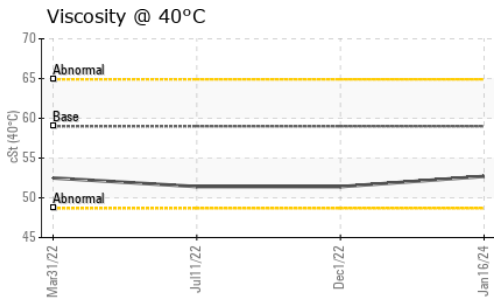
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	32	46	50
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	4	1
Boron	ppm	ASTM D5185m		8	19	15
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	3	4
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		111	112	111
Calcium	ppm	ASTM D5185m		3448	3261	3367
Phosphorus	ppm	ASTM D5185m		1062	923	1017
Zinc	ppm	ASTM D5185m		1263	1128	1214
Sulfur	ppm	ASTM D5185m		3799	3594	4285
Visc @ 40°C	cSt	ASTM D445	59	52.7	51.4	51.41



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0198594 **Received** : 18 Jan 2024
Lab Number : 06064519 **Diagnosed** : 21 Jan 2024
Unique Number : 10835901 **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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