



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[127686]

Machine Id
JOHN DEERE 824L 1DW824LXVML712912

Component
Rear Differential

Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0007959	WE0006875	WE0006450
Sample Date		Client Info		15 Jul 2024	11 Apr 2024	05 Feb 2024
Machine Age	hrs	Client Info		5107	4524	4097
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

Bearing and/or bushing wear is indicated.

PQ		ASTM D8184		24	23	12
Iron	ppm	ASTM D5185m	>500	33	21	55
Chromium	ppm	ASTM D5185m	>10	<1	1	<1
Nickel	ppm	ASTM D5185m	>10	<1	2	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	4	2	2
Lead	ppm	ASTM D5185m	>25	6	4	18
Copper	ppm	ASTM D5185m	>100	▲ 360	45	▲ 139
Tin	ppm	ASTM D5185m	>10	<1	3	<1
Vanadium	ppm	ASTM D5185m		<1	1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

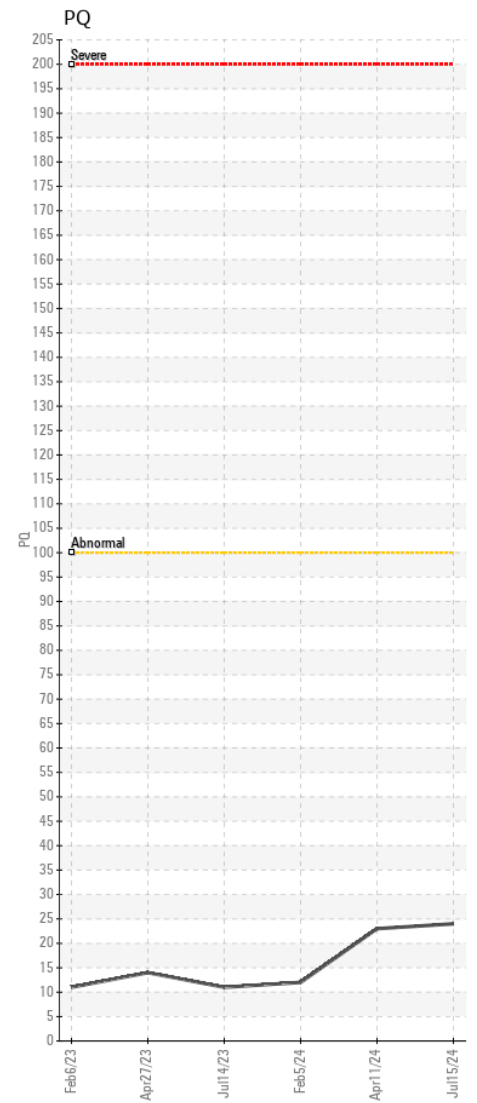
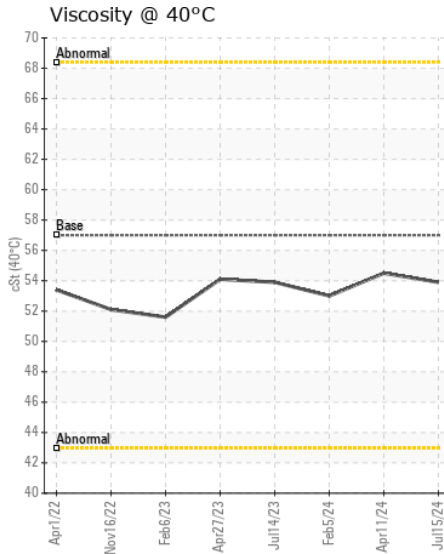
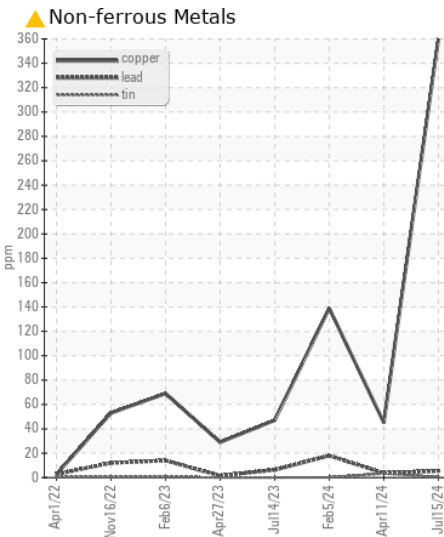
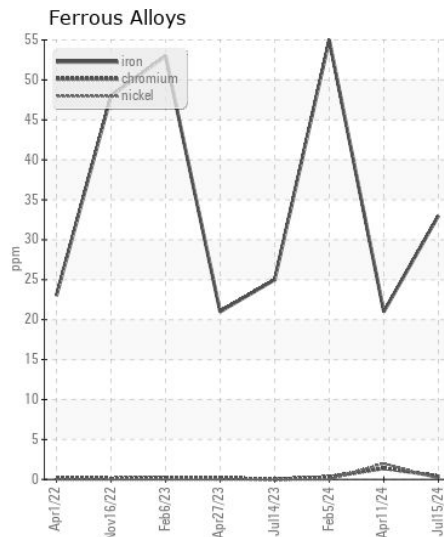
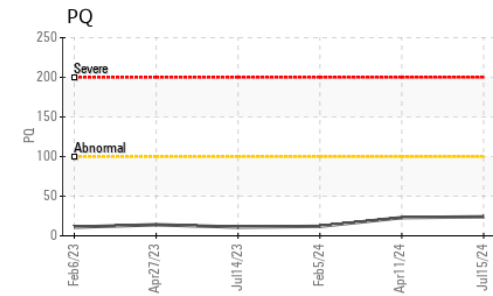
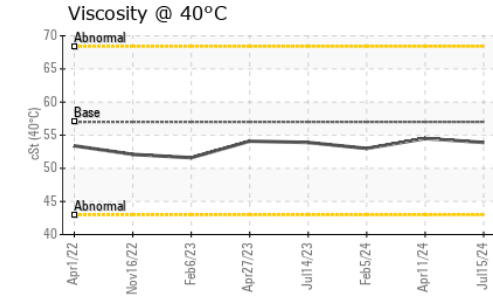
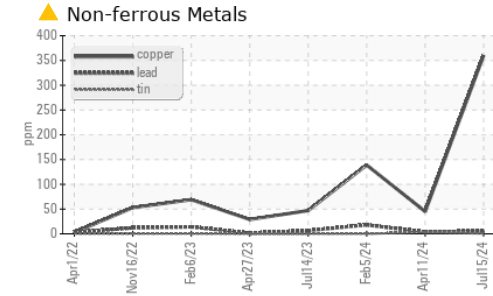
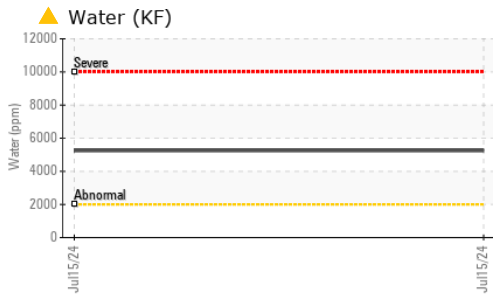
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	5	5	7
Potassium	ppm	ASTM D5185m	>20	2	3	2
Water	%	ASTM D6304	>.2	▲ 0.525	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 5250	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	▲ 0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	0	3
Boron	ppm	ASTM D5185m	6	0	0	2
Barium	ppm	ASTM D5185m	0	0	3	0
Molybdenum	ppm	ASTM D5185m	0	1	1	<1
Manganese	ppm	ASTM D5185m		<1	2	<1
Magnesium	ppm	ASTM D5185m	145	50	104	151
Calcium	ppm	ASTM D5185m	3570	3566	4030	4591
Phosphorus	ppm	ASTM D5185m	1290	1076	1066	1663
Zinc	ppm	ASTM D5185m	1640	1173	1209	1793
Sulfur	ppm	ASTM D5185m		3619	4434	6248
Visc @ 40°C	cSt	ASTM D445	57.0	53.9	54.5	53.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0007959 **Received** : 18 Jul 2024
Lab Number : 06240581 **Tested** : 19 Jul 2024
Unique Number : 11129415 **Diagnosed** : 20 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: KF, 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)