

OIL ANALYSIS REPORT

WEAR **ABNORMAL** CONTAMINATION **ABNORMAL FLUID CONDITION** NORMAL

[127686] **JOHN DEERE 824L 1DW824LXVML712912** Brake 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.

WEAR

A sharp increase in the copper level is noted.

CONTAMINATION

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

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0007961	WE0006833	WE0006448
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		N/A	Not Changd	Changed
Sample Status				ABNORMAL	SEVERE	NORMAL
PQ		ASTM D8184		19	66	10
Iron	ppm	ASTM D5185m	>350	32	217	3
Chromium	ppm	ASTM D5185m	>5	<1	2	<1
Nickel	ppm	ASTM D5185m	>5	<1	4	0
Titanium	ppm	ASTM D5185m		<1	2	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>8	4	4	2
Lead	ppm	ASTM D5185m	>10	5	6	0
Copper	ppm	ASTM D5185m	>150	4 348	5	1
Tin	ppm	ASTM D5185m	>5	<1	6	0
Vanadium	ppm	ASTM D5185m		<1	1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>400	5	7 61	9
Potassium	ppm	ASTM D5185m	>20	2	4	3
Water	%	ASTM D6304	>0.2	- ▲ 0.439		
ppm Water	ppm	ASTM D6304	>2000	▲ 4390		
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	▲ 0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m		0	15	4
Boron	ppm	ASTM D5185m	6	8	77	<1
Barium	ppm	ASTM D5185m	0	0	5	0
Molybdenum	ppm	ASTM D5185m	0	10	260	0
Manganese	ppm	ASTM D5185m		<1	6	0
Magnesium	ppm	ASTM D5185m	145	75	417	160
Calcium	ppm	ASTM D5185m	3570	3518	2051	4592
Phosphorus	ppm	ASTM D5185m	1290	1056	819	1563
Zinc	ppm	ASTM D5185m	1640	1174	844	1802
Sulfur	ppm	ASTM D5185m		3637	3012	5718
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Visc @ 40°C

cSt

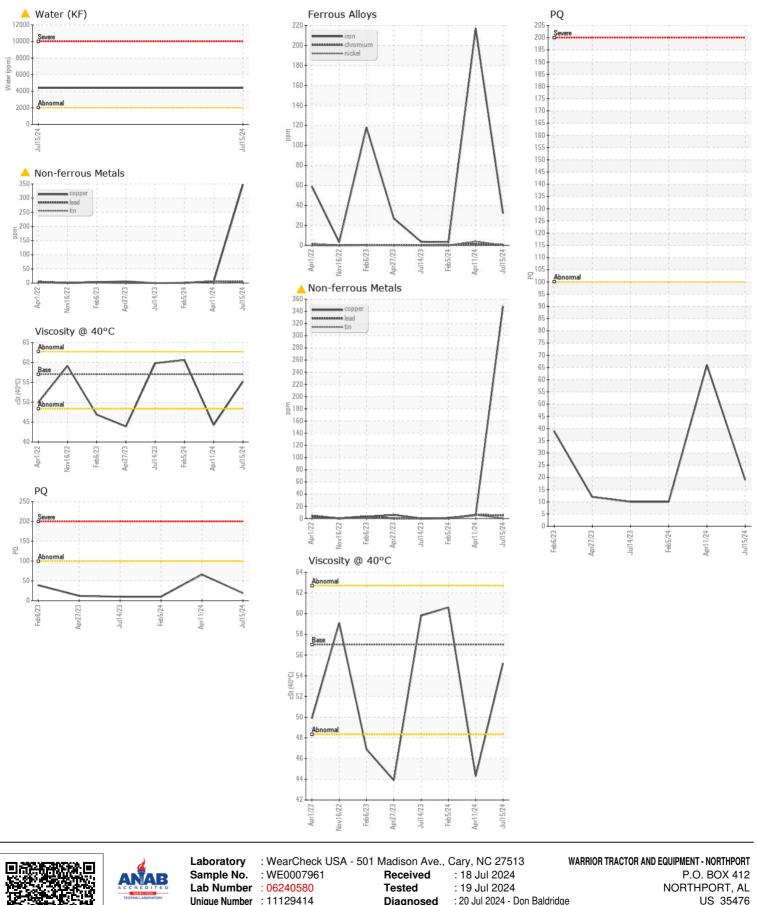
ASTM D445 57.0

Contact/Location: PAMELA CLARK - WARNOR

44.3

55.2

60.6



Unique Number : 11129414 : 20 Jul 2024 - Don Baldridge Diagnosed Test Package : CONST (Additional Tests: KF, PQ) Contact: PAMELA CLARK Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. pamela@warriortractor.com * - 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)

Contact/Location: PAMELA CLARK - WARNOR Page 2 of 2

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