

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL



{unassigned}

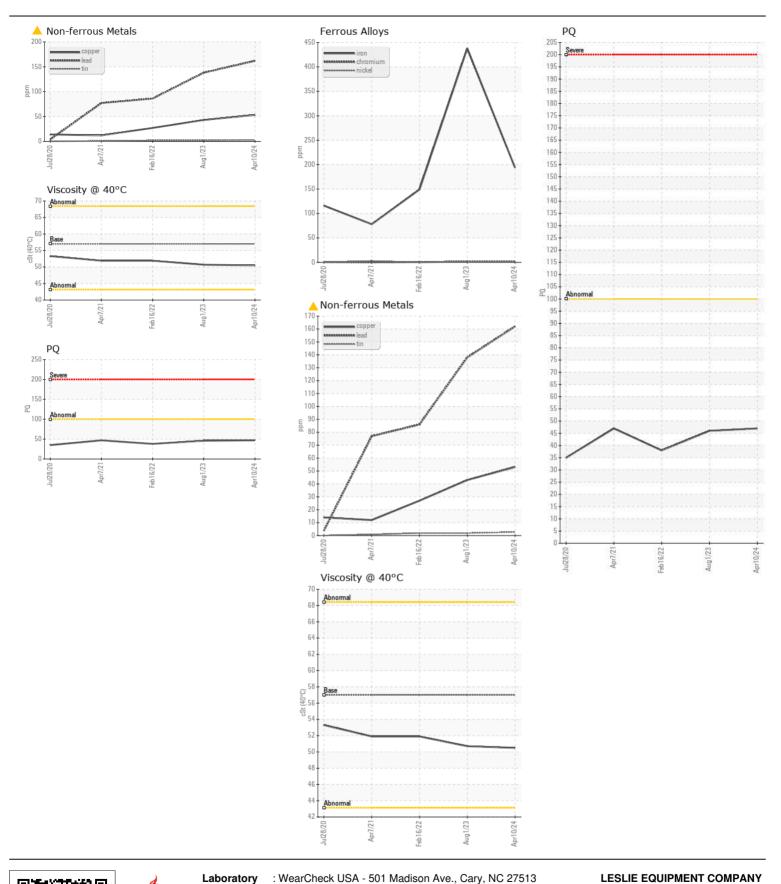
## **JOHN DEERE 644K 1DW644KZJKF694571**

**Front Axle** 

JOHN DEERE HY-GARD HYD/TRANS (6 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0049573	LEC0043743	LEC0027571
	Sample Date		Client Info		10 Apr 2024	01 Aug 2023	16 Feb 2022
	Machine Age	hrs	Client Info		4025	3330	1870
	Oil Age	hrs	Client Info		4025	1460	1870
	Filter Age	hrs	Client Info		695	2106	646
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		Not Changd	Changed	None
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	PQ		ASTM D8184		47	46	38
Bearing and/or bushing wear is indicated.	Iron	ppm	ASTM D5185m	>750	194	438	149
	Chromium	ppm	ASTM D5185m	>11	1	1	<1
	Nickel	ppm	ASTM D5185m	>10	1	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>21	3	3	1
	Lead	ppm	ASTM D5185m	>49	<u> </u>	<u> </u>	86
	Copper	ppm	ASTM D5185m	>101	53	43	27
	Tin	ppm	ASTM D5185m	>10	3	2	2
	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 no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>31	8	13	7
	Potassium	ppm	ASTM D5185m	>20	3	2	0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	LIGHT	LIGHT	▲ MODER
	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	Sodium	ppm	ASTM D5185m	>51	6	7	5
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	6	3	5	5
	Barium	ppm	ASTM D5185m	0	6	3	0
	Molybdenum	ppm	ASTM D5185m	0	2	<1	1
	Manganese	ppm	ASTM D5185m		4	6	3
	Magnesium	ppm	ASTM D5185m		104	100	113
	Calcium	ppm	ASTM D5185m		3547	3250	3712
	Phosphorus	ppm	ASTM D5185m		1056	958	1042
	Zinc	ppm	ASTM D5185m	1640	1262	1156	1239
	Sulfur	ppm	ASTM D5185m		3836	4119	3182
	Visc @ 40°C	cSt	ASTM D445	57.0	50.5	50.7	51.9

Submitted By: JOHN MARTIN







Certificate L2367

Laboratory Sample No.

: LEC0049573 Lab Number : 06149681 Unique Number : 10979759

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 15 Apr 2024 : 16 Apr 2024

: 18 Apr 2024 - Jonathan Hester

Contact: LEANNE KENDALL KendalLeanne@lec1.com

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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)

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