

## Machine Id JOHN DEERE 644L 1DW644LZJLL706347 Component Rear Differential Fluid JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

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M	/F	Δ	R

The lead level is abnormal. All other component wear rates are normal.

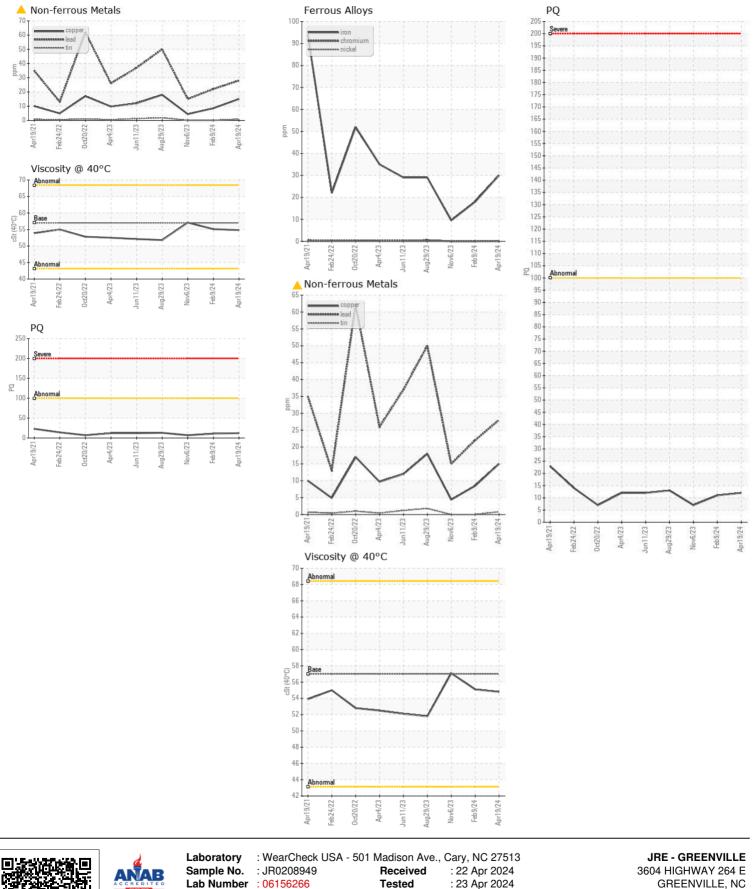
## CONTAMINATION

There is no indication of any contamination in the oil.

## **FLUID CONDITION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0208949	JR0200665	JR0186588
Sample Date		Client Info		19 Apr 2024	09 Feb 2024	06 Nov 2023
Machine Age	hrs	Client Info		7471	6993	6521
Oil Age	hrs	Client Info		6054	6526	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
PQ		ASTM D8184		12	11	7
Iron	ppm	ASTM D5185m	>500	30	18	10
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	<1
Lead	ppm	ASTM D5185m	>25	<b>A</b> 28	22	15
Copper	ppm	ASTM D5185m	>100	15	8	4
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	5	4	4
Potassium	ppm	ASTM D5185m	>20	0	0	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
Sodium	ppm	ASTM D5185m		3	2	<1
Boron	ppm	ASTM D5185m	6	32	28	29
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	0	23	23	23
Manganese	ppm	ASTM D5185m		2	0	0
Magnesium	ppm	ASTM D5185m	145	162	160	155
Calcium	ppm	ASTM D5185m	3570	3341	3300	3059
Phosphorus	ppm	ASTM D5185m	1290	1058	980	910
Zinc	ppm	ASTM D5185m	1640	1209	1285	1147
Sulfur	ppm	ASTM D5185m		4295	3424	3270
Visc @ 40°C	cSt	ASTM D445	57.0	54.8	55.1	57.1



Lab Number : 06156266 : 23 Apr 2024 Unique Number : 10991689 : 24 Apr 2024 - Sean Felton US 27834-5800 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: GREENVILLE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. christopher.martin@jamesriverequipment.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)

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