

#### Machine Id JOHN DEERE 648LII F711103 Component Brake Fluid JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

## RECOMMENDATION

The fluid change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

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## WEAR

The iron level is severe.

# CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material.

# FLUID CONDITION

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The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0216558		
Sample Date		Client Info		17 Jun 2024		
Machine Age	hrs	Client Info		2598		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				SEVERE		
PQ		ASTM D8184		<b>3</b> 01		
Iron	nnm	ASTM D0104 ASTM D5185m	>350	▲ 1492		
Chromium	ppm	ASTM D5185m	>5	1 1492		
Nickel	ppm	ASTM D5185m		2		
Titanium	ppm	ASTM D5185m	>5	2 33		
Silver	ppm					
Aluminum	ppm	ASTM D5185m	. 0	<1 o		
	ppm		>8	8		
Lead	ppm	ASTM D5185m	>10	14		
Copper	ppm	ASTM D5185m	>150	3		
Tin	ppm	ASTM D5185m	>5	0		
Vanadium	ppm	ASTM D5185m	NONE	<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>400	<b>A</b> 759		
Potassium	ppm	ASTM D5185m	>20	16		
Water		WC Method	>0.2	NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Sodium	ppm	ASTM D5185m		25		
Boron	ppm	ASTM D5185m	6	178		
Barium	ppm	ASTM D5185m	0	2		
Molybdenum	ppm	ASTM D5185m	0	72		
Manganese	ppm	ASTM D5185m	0	13		
Magnesium	ppm	ASTM D5185m	145	714		
Calcium	ppm	ASTM D5185m	3570	1204		
Phosphorus	ppm	ASTM D5185m	1290	708		
Zinc	ppm	ASTM D5185m	1640	700		
Sulfur	ppm	ASTM D5185m	10-10	3629		
Visc @ 40°C	cSt	ASTM D3103m ASTM D445	57.0	47.3		
130 @ 40 0	001	A0 HW D440	57.0	-1.3		

Contact/Location: MIKE JENKINS - JAMFIS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - FISHERSVILLE** Sample No. : JR0216558 Received 98 EXPO ROAD : 24 Jun 2024 -1 Lab Number : 06218490 Tested FISHERSVILLE, VA : 25 Jun 2024 Unique Number : 11096687 : 26 Jun 2024 - Jonathan Hester Diagnosed US 22939 Test Package : MOBCE (Additional Tests: PQ) Contact: MIKE JENKINS Certificate L2367 MIKE.JENKINS@JAMESRIVEREQUIPMENT.COM 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. T: (540)292-3494 F: (540)337-1495 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: MIKE JENKINS - JAMFIS Page 2 of 2