

## Machine Id **A-321** Component **Front Differential** Fluid **JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

RECOMMENDATION	R			IDATI	ON
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Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

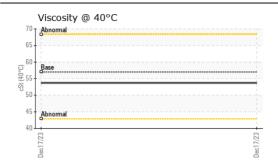
There is no indication of any contamination in the oil.

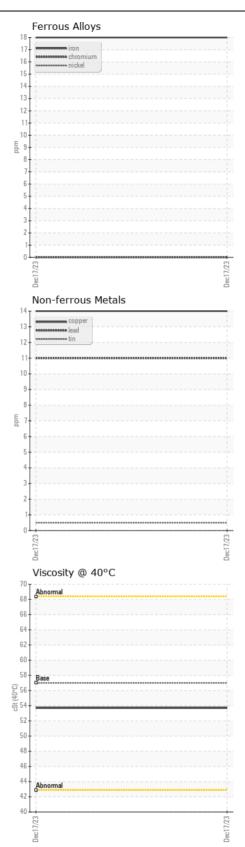
## **FLUID CONDITION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0878680		
Sample Date		Client Info		17 Dec 2023		
Machine Age	hrs	Client Info		6879		
Oil Age	hrs	Client Info		1908		
Filter Age	hrs	Client Info		1908		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
Iron		ASTM D5185m	>500	18		
Chromium	ppm	ASTM D5185m				
	ppm		>10	0		
Nickel Titanium	ppm	ASTM D5185m ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		-		
0	ppm		05	0		
Aluminum	ppm	ASTM D5185m	>25	<1		
Lead	ppm	ASTM D5185m ASTM D5185m	>25	11		
Copper	ppm		>100	14		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>75	3		
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>75 >20	3 0		
				-		
Potassium		ASTM D5185m	>20	0		
Potassium Water	ppm	ASTM D5185m WC Method	>20 >.2	0 NEG		
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >.2 NONE	0 NEG NONE		
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >.2 NONE NONE	0 NEG NONE NONE		  
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >.2 NONE NONE NONE	0 NEG NONE NONE NONE		
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >.2 NONE NONE NONE NORML	0 NEG NONE NONE NONE NORML	  	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >.2 NONE NONE NORE NORML	0 NEG NONE NONE NORML NORML NEG	  	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2	0 NEG NONE NONE NORML NORML NEG	  	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2	0 NEG NONE NONE NORML NORML NEG 2 8		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;.2</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;.2</li> <li>6</li> <li>0</li> </ul>	0 NEG NONE NONE NORML NORML NEG 2 8 0		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2	0 NEG NONE NONE NORML NORML NEG 2 8 0 4		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;.2</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;.2</li> <li>6</li> <li>0</li> <li>0</li> </ul>	0 NEG NONE NONE NORML NORML NEG 2 8 0 4 <1		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;.2</li> <li>NONE</li> <li>NORM</li> <li>NORML</li> <li>&gt;.2</li> <li>6</li> <li>0</li> <li>0</li> <li>145</li> </ul>	0 NEG NONE NONE NORML NORML NEG 2 8 0 4 <1 106		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;.2</li> <li>6</li> <li>0</li> <li>0</li> <li>145</li> <li>3570</li> </ul>	0 NEG NONE NONE NORML NORML 2 2 8 0 4 <1 106 3126		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;2</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;2</li> <li>6</li> <li>0</li> <li>0</li> <li>145</li> <li>3570</li> <li>1290</li> </ul>	0 NEG NONE NONE NORML NORML NEG 2 8 0 4 <1 106 3126 1036		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;.2</li> <li>6</li> <li>0</li> <li>0</li> <li>145</li> <li>3570</li> </ul>	0 NEG NONE NONE NORML NORML NEG 2 8 0 4 <1 106 3126 1036 1196		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;2</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;2</li> <li>6</li> <li>0</li> <li>0</li> <li>145</li> <li>3570</li> <li>1290</li> </ul>	0 NEG NONE NONE NORML NORML NEG 2 8 0 4 <1 106 3126 1036		

Contact/Location: NICK DIXON - DUKRAL







d	Laboratory	DUKE LAZZARA					
	Sample No.	: WC0878680	Recieved	: 26 Dec 2023	4201 FAYETTEVILLE RD		
ACCREDITED	Lab Number	: 06045247	Diagnosed	: 28 Dec 2023	RALEIGH, NC		
TESTING LABORATORY	Unique Number	: 10805855	Diagnostician	: Sean Felton	US 27603		
Certificate L2367	Test Package	: CONST	-		Contact: NICK DIXON		
To discuss this	NICK.DIXON@DUKELAZZAM.COM						
* - Denotes tes	T: (919)760-7797						
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)							

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