

# **OIL ANALYSIS REPORT**

### DT

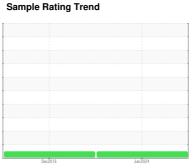
## NORMAL



# [ARGOS] Machine Id JOHN DEERE 772G 1DW772GXVEF662492

Component
Rear Differential

JOHN DEERE HY-GARD HYD/TRANS (10 GAL)





#### DIAGNOSIS

#### Recommendation

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.

Sample Number   Client Info   JR0184715   JRMC399104	TITE/TRANS (II	GAL)		Dec2016	Jan 2024		
Sample Date   Client Info   08 Jan 2024   02 Dec 2016	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age   hrs   Client Info   3926   495	Sample Number		Client Info		JR0184715	JRMC399104	
Dil Age	Sample Date		Client Info		08 Jan 2024	02 Dec 2016	
Not Changed   Client Info   Not Changed   Normal   Norm	Machine Age	hrs	Client Info		3926	495	
NORMAL   NORMAL   NORMAL     NORMAL     NORMAL     NORMAL     NORMAL     NORMAL     NORMAL     NORMAL     NORMAL     NORMAL     NORMAL     NORMAL   NORMAL     NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORMAL   NORM	Oil Age	hrs	Client Info		333	495	
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.1         NEG            WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D8184         71         185            Iron         ppm         ASTM D5185m         >1501         550         413            Chromium         ppm         ASTM D5185m         >10         0         0            Nickel         ppm         ASTM D5185m         >10         0         0            Nickel         ppm         ASTM D5185m         0         0             Silver         ppm         ASTM D5185m         >51         4         3            ALead         ppm         ASTM D5185m         >51         4         3            Lead         ppm         ASTM D5185m         >101         25         10            Antimony         ppm         ASTM D5185m         >10         4         0            Vanadium	Oil Changed		Client Info		Not Changd	Not Changd	
Water         WC Method         >0.1         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D81884         71         185            Iron         ppm         ASTM D5185m         >1501         550         413            Chromium         ppm         ASTM D5185m         >10         0         0            Nickel         ppm         ASTM D5185m         >10         0         0            Silver         ppm         ASTM D5185m         >0         0            Silver         ppm         ASTM D5185m         >21         0         <1            Aluminum         ppm         ASTM D5185m         >51         4         3            Lead         ppm         ASTM D5185m         >101         25         10            Copper         ppm         ASTM D5185m         >10         4         0            Vanadium         ppm         ASTM D5185m         >5          0            Vanadium <td>Sample Status</td> <td></td> <td></td> <td></td> <td>NORMAL</td> <td>NORMAL</td> <td></td>	Sample Status				NORMAL	NORMAL	
WEAR METALS         method         limit/base         current         history1         history2           PQ         ASTM D8184         71         185            Iron         ppm         ASTM D6185m         >1501         550         413            Chromium         ppm         ASTM D5185m         >10         0         0            Nickel         ppm         ASTM D5185m         >10         0         0            Silver         ppm         ASTM D5185m         0         0             Aluminum         ppm         ASTM D5185m         >21         0         <1	CONTAMINATIO	N	method	limit/base	current	history1	history2
PQ	Water		WC Method	>0.1	NEG	NEG	
ASTM D5185m	WEAR METALS		method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185m         >11         <1         <1            Nickel         ppm         ASTM D5185m         >10         0         0            Titanium         ppm         ASTM D5185m         0         <1	PQ		ASTM D8184		71	185	
Chromium	Iron	ppm	ASTM D5185m	>1501	550	413	
Titanium         ppm         ASTM D5185m         0         <1            Silver         ppm         ASTM D5185m         0         0            Aluminum         ppm         ASTM D5185m         >21         0         <1            Aluminum         ppm         ASTM D5185m         >51         4         3            Lead         ppm         ASTM D5185m         >51         4         3            Copper         ppm         ASTM D5185m         >10         4         0            Tin         ppm         ASTM D5185m         >10         4         0            Antimony         ppm         ASTM D5185m         >5          0            Antimony         ppm         ASTM D5185m         0         0          0           Antimony         ppm         ASTM D5185m         0         0          0            Antimony         ppm         ASTM D5185m         0         0          0            Antimony         ppm         ASTM D5185m         0         3	Chromium		ASTM D5185m	>11	<1	<1	
Silver	Nickel	ppm	ASTM D5185m	>10	0	0	
Aluminum         ppm         ASTM D5185m         >21         0         <1            Lead         ppm         ASTM D5185m         >51         4         3            Copper         ppm         ASTM D5185m         >101         25         10            Tin         ppm         ASTM D5185m         >10         4         0            Antimony         ppm         ASTM D5185m         >5          0            Vanadium         ppm         ASTM D5185m         0         0         0            Cadmium         ppm         ASTM D5185m         0         <1	Titanium	ppm	ASTM D5185m		0	<1	
Lead	Silver	ppm	ASTM D5185m		0	0	
Copper         ppm         ASTM D5185m         >101         25         10            Tin         ppm         ASTM D5185m         >10         4         0            Antimony         ppm         ASTM D5185m         >5          0            Vanadium         ppm         ASTM D5185m         0         0            Cadmium         ppm         ASTM D5185m         0         <1	Aluminum	ppm	ASTM D5185m	>21	0	<1	
Tin	Lead	ppm	ASTM D5185m	>51	4	3	
Antimony         ppm         ASTM D5185m         >5          0            Vanadium         ppm         ASTM D5185m         0         0            Cadmium         ppm         ASTM D5185m         0         <1            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         6         7         2            Barium         ppm         ASTM D5185m         0         3         3            Molybdenum         ppm         ASTM D5185m         0         0         0            Manganese         ppm         ASTM D5185m         145         78         94            Calcium         ppm         ASTM D5185m         1570         2905         3389            Phosphorus         ppm         ASTM D5185m         1290         983         993            Zinc         ppm         ASTM D5185m         1640         938         1187            Sulfur         ppm         ASTM D5185m         >3589         3518	Copper	ppm	ASTM D5185m	>101	25	10	
Vanadium         ppm         ASTM D5185m         0         0            Cadmium         ppm         ASTM D5185m         0         <1            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         6         7         2            Barium         ppm         ASTM D5185m         0         3         3            Molybdenum         ppm         ASTM D5185m         0         0         0            Manganese         ppm         ASTM D5185m         145         78         94            Magnesium         ppm         ASTM D5185m         145         78         94            Calcium         ppm         ASTM D5185m         1290         983         993            Phosphorus         ppm         ASTM D5185m         1640         938         1187            Sulfur         ppm         ASTM D5185m         3589         3518            CONTAMINANTS         method         limit/base         current         history1         history2	Tin	ppm	ASTM D5185m	>10	4	0	
Cadmium         ppm         ASTM D5185m         0         <1            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         6         7         2            Barium         ppm         ASTM D5185m         0         3         3            Molybdenum         ppm         ASTM D5185m         0         0         0            Manganese         ppm         ASTM D5185m         6         6         6            Magnesium         ppm         ASTM D5185m         145         78         94            Calcium         ppm         ASTM D5185m         3570         2905         3389            Phosphorus         ppm         ASTM D5185m         1290         983         993            Zinc         ppm         ASTM D5185m         3589         3518            Sulfur         ppm         ASTM D5185m         3589         3518            CONTAMINANTS         method         limit/base         current         history1         history2	Antimony	ppm	ASTM D5185m	>5		0	
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         6         7         2            Barium         ppm         ASTM D5185m         0         3         3            Molybdenum         ppm         ASTM D5185m         0         0         0            Manganese         ppm         ASTM D5185m         145         78         94            Magnesium         ppm         ASTM D5185m         145         78         94            Calcium         ppm         ASTM D5185m         3570         2905         3389            Phosphorus         ppm         ASTM D5185m         1290         983         993            Zinc         ppm         ASTM D5185m         1640         938         1187            Sulfur         ppm         ASTM D5185m         3589         3518            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >51         8 <td>Vanadium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td>0</td> <td></td>	Vanadium	ppm	ASTM D5185m		0	0	
Boron         ppm         ASTM D5185m         6         7         2            Barium         ppm         ASTM D5185m         0         3         3            Molybdenum         ppm         ASTM D5185m         0         0         0            Manganese         ppm         ASTM D5185m         6         6         6            Magnesium         ppm         ASTM D5185m         145         78         94            Calcium         ppm         ASTM D5185m         3570         2905         3389            Phosphorus         ppm         ASTM D5185m         1290         983         993            Zinc         ppm         ASTM D5185m         1640         938         1187            Sulfur         ppm         ASTM D5185m         3589         3518            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >31         5         8            Sodium         ppm         ASTM D5185m         >51         8	Cadmium	ppm	ASTM D5185m		0	<1	
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         0         0            Manganese         ppm         ASTM D5185m         6         6            Magnesium         ppm         ASTM D5185m         145         78         94            Calcium         ppm         ASTM D5185m         3570         2905         3389            Phosphorus         ppm         ASTM D5185m         1290         983         993            Zinc         ppm         ASTM D5185m         1640         938         1187            Sulfur         ppm         ASTM D5185m         3589         3518            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >31         5         8            Sodium         ppm         ASTM D5185m         >51         8         5	Boron	ppm	ASTM D5185m	6	7	2	
Manganese         ppm         ASTM D5185m         6         6            Magnesium         ppm         ASTM D5185m         145         78         94            Calcium         ppm         ASTM D5185m         3570         2905         3389            Phosphorus         ppm         ASTM D5185m         1290         983         993            Zinc         ppm         ASTM D5185m         1640         938         1187            Sulfur         ppm         ASTM D5185m         3589         3518            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >31         5         8            Sodium         ppm         ASTM D5185m         >51         8         5	Barium	ppm	ASTM D5185m	0	3	3	
Magnesium         ppm         ASTM D5185m         145         78         94            Calcium         ppm         ASTM D5185m         3570         2905         3389            Phosphorus         ppm         ASTM D5185m         1290         983         993            Zinc         ppm         ASTM D5185m         1640         938         1187            Sulfur         ppm         ASTM D5185m         3589         3518            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >31         5         8            Sodium         ppm         ASTM D5185m         >51         8         5	Molybdenum	ppm	ASTM D5185m	0	0	0	
Calcium         ppm         ASTM D5185m         3570         2905         3389            Phosphorus         ppm         ASTM D5185m         1290         983         993            Zinc         ppm         ASTM D5185m         1640         938         1187            Sulfur         ppm         ASTM D5185m         3589         3518            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >31         5         8            Sodium         ppm         ASTM D5185m         >51         8         5	Manganese	ppm	ASTM D5185m		6	6	
Phosphorus         ppm         ASTM D5185m         1290         983         993            Zinc         ppm         ASTM D5185m         1640         938         1187            Sulfur         ppm         ASTM D5185m         3589         3518            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >31         5         8            Sodium         ppm         ASTM D5185m         >51         8         5	Magnesium	ppm	ASTM D5185m	145	78	94	
Zinc         ppm         ASTM D5185m         1640         938         1187            Sulfur         ppm         ASTM D5185m         3589         3518            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >31         5         8            Sodium         ppm         ASTM D5185m         >51         8         5	Calcium	ppm	ASTM D5185m	3570	2905	3389	
Sulfur         ppm         ASTM D5185m         3589         3518            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >31         5         8            Sodium         ppm         ASTM D5185m         >51         8         5	Phosphorus	ppm	ASTM D5185m	1290	983	993	
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >31         5         8            Sodium         ppm         ASTM D5185m         >51         8         5	Zinc	ppm	ASTM D5185m	1640	938	1187	
Silicon         ppm         ASTM D5185m         >31         5         8            Sodium         ppm         ASTM D5185m         >51         8         5	Sulfur	ppm	ASTM D5185m		3589	3518	
Sodium         ppm         ASTM D5185m         >51         8         5	CONTAMINANTS	;	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D5185m         >51         8         5	Silicon	ppm	ASTM D5185m	>31	5	8	
Potassium         ppm         ASTM D5185m         >20         0         11	Sodium		ASTM D5185m	>51	8	5	
	Potassium	ppm	ASTM D5185m	>20	0	11	



## **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: JR0184715 : 06056956 : 10822905

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024 Diagnosed : 11 Jan 2024

Diagnostician : Don Baldridge

Test Package : CONST ( Additional Tests: PQ ) 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)

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG dzieg@jamesriverequipment.com

> T: (804)798-6001 F: (804)798-0292

Report Id: JAMASH [WUSCAR] 06056956 (Generated: 01/12/2024 05:56:39) Rev: 1

Contact/Location: DAVID ZIEG - JAMASH