

[HOWARD SHOCKEY] JOHN DEERE 310G C043444 (S/N T0310GX940601)

Front Differential

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

RECOMMENDATION

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

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

CONTAMINATION

There is no indication of any contamination in the oil.

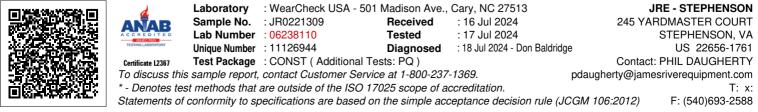
FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0221309	JR0067188	
Sample Date		Client Info		12 Jul 2024	10 Nov 2020	
Machine Age	hrs	Client Info		7356	7081	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Not Changd	N/A	
Sample Status				ABNORMAL	ABNORMAL	
PQ		ASTM D8184	=	173	183	
Iron	ppm	ASTM D5185m	>500	244	212	
Chromium	ppm	ASTM D5185m	>10	2	2	
Nickel	ppm	ASTM D5185m	>10	<1	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	3	1	
Lead	ppm	ASTM D5185m	>25	4	6	
Copper	ppm	ASTM D5185m	>100	A 237	2 01	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>75	37	35	
Potassium	ppm	ASTM D5185m	>20	3	1	
Water		WC Method	>.2	NEG	NEG	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	
Sodium	ppm	ASTM D5185m		20	21	
Boron	ppm	ASTM D5185m		130	98	
Barium	ppm	ASTM D5185m	0	0	2	
Molybdenum	ppm	ASTM D5185m	0	26	25	
Manganese	ppm	ASTM D5185m		10	9	
Magnesium	ppm	ASTM D5185m	145	8	7	
Calcium	ppm	ASTM D5185m	3570	3462	3600	
Phosphorus	ppm	ASTM D5185m	1290	978	1179	
Zinc	ppm	ASTM D5185m	1640	1475	1486	
Sulfur	ppm	ASTM D5185m		7389	6409	
Visc @ 40°C	cSt	ASTM D445	57.0	44.9	46.2	

Contact/Location: PHIL DAUGHERTY - JAMWIN





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