

Machine Id 740451 Component Front Differential JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

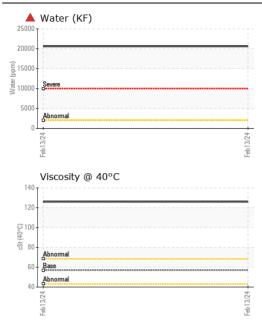
There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

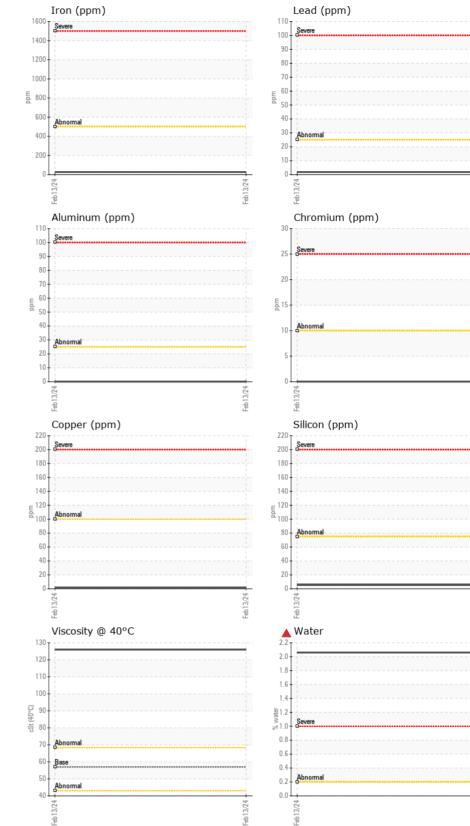
	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PCA010097	0	
	Sample Date		Client Info		13 Feb 202	4	
	Machine Age	hrs	Client Info		1030		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				SEVERE		
	Iron	nom	ASTM D5185m	>500	26		
	Chromium	ppm	ASTM D5185m	>10	0		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m	>10	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm ppm	ASTM D5185m	>25	0		
	Lead	ppm	ASTM D5185m	>25	2		
	Copper	ppm	ASTM D5185m	>100	2		
	Tin		ASTM D5185m	>100	2 <1		
	Vanadium	ppm	ASTM D5185m	>10	0		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		Scalal	visuai				
	Silicon	nnm	ASTM D5185m	75	E		
	0	ppm	ASTIVI DOTODITI	>75	5		
	Potassium	ppm	ASTM D5185m	>75	0		
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	Potassium	ppm	ASTM D5185m	>20	0		
	Potassium Water	ppm %	ASTM D5185m ASTM D6304	>20 >.2	0 ▲ 2.06		
	Potassium Water ppm Water	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304	>20 >.2 >2000	0 2.06 20600		
	Potassium Water ppm Water Silt	ppm % ppm scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual	>20 >.2 >2000 NONE	0 2.06 20600 NONE 		
	Potassium Water ppm Water Silt Debris	ppm % ppm scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual	>20 >.2 >2000 NONE NONE	0 2.06 20600 NONE MODEF	 	
	Potassium Water ppm Water Silt Debris Sand/Dirt	ppm % ppm scalar scalar scalar	ASTM D5185m ASTM D6304 *Visual *Visual *Visual	>20 >.2 >2000 NONE NONE NONE	0 2.06 20600 NONE MODEF NONE		
	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance	ppm % ppm scalar scalar scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual	>20 >.2 >2000 NONE NONE NONE NORML	0 2.06 20600 NONE MODEF NONE NORE		
	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm % ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual	>20 >.2 >2000 NONE NONE NONE NORML	0 2.06 20600 NONE MODEF NORMI NORMI 0.2%		
	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm % ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >.2 >2000 NONE NONE NORML NORML >.2	0 2.06 20600 NONE NONE NORMI NORMI 0.2% <1		
	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm % ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >.2 >2000 NONE NORME NORML >.2	0 ▲ 2.06 ▲ 20600 NONE ▲ MODEF NORMI NORMI ▲ 0.2% <1 <1	 <li< th=""><th></th></li<>	
	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm % ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >.2 >2000 NONE NONE NORML >.2	0 ▲ 2.06 ▲ 20600 NONE ▲ MODEF NORMI NORMI ▲ 0.2% <1 <1 0	<	
	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 >2000 NONE NORME NORML >.2	0 ▲ 2.06 ▲ 20600 NONE ▲ MODEF NORMI ■ 0.2% <1 <1 0 0	<	
	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm % ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 >2000 NONE NORME NORML >.2 6 0	0 2.06 20600 NONE NORE NORM NORM 0.2% <1 <1 0 0 <1	<	
	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Boron Barium Molybdenum Manganese	ppm % ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 >2000 NONE NONE NORML >.2 6 0 0 0	0 ▲ 2.06 ▲ 20600 NONE ▲ MODEF NORMI NORMI ▲ 0.2% <1 <1 0 0 <1 6	Image: section sectio	
	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Barium Barium Molybdenum Manganese Magnesium Calcium	ppm % scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 >2000 NONE NONE NORML >.2 6 0 0 0 145 3570	0 ▲ 2.06 ▲ 20600 NONE ▲ MODEF NORMI ▲ 0.2% <1 <1 0 0 <1 6 275	Image: select	
	Potassium Water Upm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Barium Barium Molybdenum Manganese Magnesium Calcium	ppm % scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2 6 0 0 145 3570 1290	0 ▲ 2.06 ▲ 20600 NONE NORMI NORMI ▲ 0.2% <1 <1 0 0 <1 6 275 262	Image: selection of the	
	Potassium Water Vater ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium Calcium Phosphorus	ppm % scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 >2000 NONE NONE NORML >.2 6 0 0 0 145 3570	0 ▲ 2.06 ▲ 20600 NONE NONE NORMI NORMI ▲ 0.2% <1 <1 0 0 <1 6 275 262 80	Image: Control of the sector of the secto	
	Potassium Water Upm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Barium Barium Molybdenum Manganese Magnesium Calcium	ppm % scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >.2 NONE NONE NORML NORML >.2 6 0 0 145 3570 1290	0 ▲ 2.06 ▲ 20600 NONE NORMI NORMI ▲ 0.2% <1 <1 0 0 <1 6 275 262	Image: selection of the	

The oil is no longer serviceable due to the presence of contaminants.

FLUID CONDITION

Contact/Location: ROGER AMICK - SYNMOC







Sample No. 284 BOGER RD : PCA0100970 Received : 26 Feb 2024 Lab Number : 06100450 MOCKSVILLE, NC Tested : 27 Feb 2024 Unique Number : 10898680 : 28 Feb 2024 - Jonathan Hester US 27028 Diagnosed Test Package : MOB 1 (Additional Tests: KF) Contact: ROGER AMICK Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ramick@synagro.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)998-7150 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)998-2155

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Laboratory

Contact/Location: ROGER AMICK - SYNMOC

SYNAGRO

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Feb 13/24