

JOHN DEERE 1025R 58000003 (S/N 1LV1025REKK184227)

Component Hydraulic System

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

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

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w		Δ.	121

Metal levels are typical for a new component breaking in.

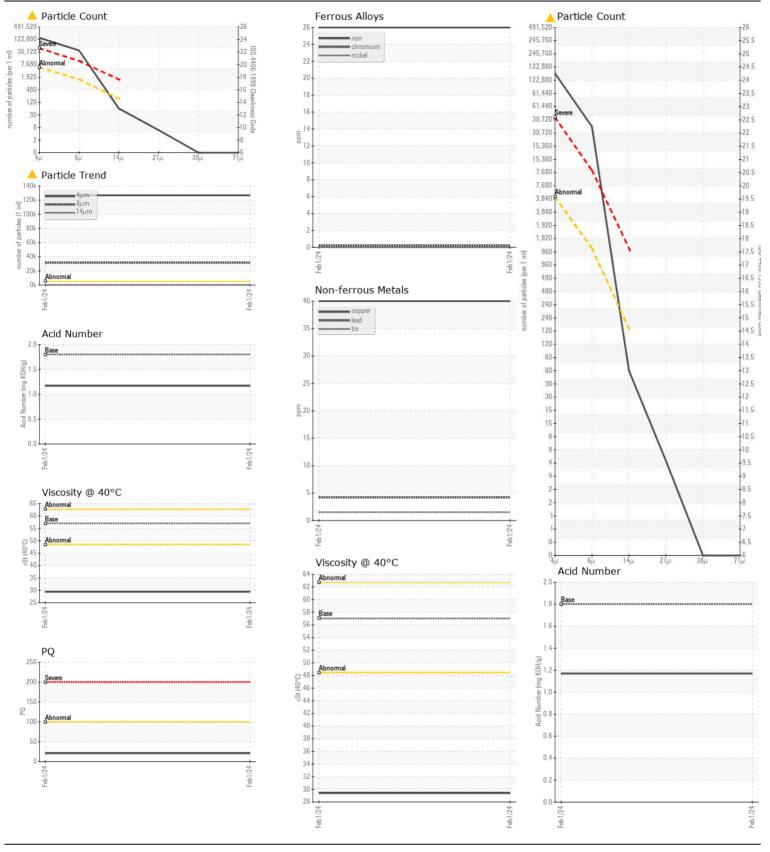
CONTAMINATION

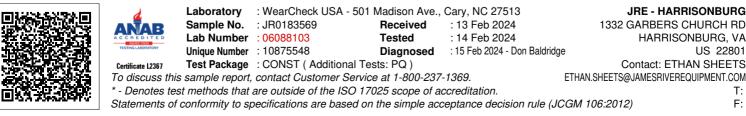
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

TestUOMMethodLimit/ACurrentHistory1History2Sample DumberClient InfoJR0183669Machine AgehrsClient Info55Machine AgehrsClient Info55Oil AgehrsClient Info55Oil ChangedClient InfoNot ChangdFilter AgehrsClient InfoNot ChangdSample StatusClient InfoNot ChangdSample StatusSample StatusASTM D8185PQASTM D8185>2026ChromiumppmASTM D5185>10NickelppmASTM D5185>100SilverppmASTM D5185>102SilverppmASTM D5185>102QanadiumppmASTM D5185>102YanadiumppmASTM D5185>203Yellow Metalscalar'VisualNONENONEYellow Metalscalar'VisualNONENONEYellow Metalscalar'VisualNONEA1407Yellow Metalscalar'VisualNONEA1407Yellow							
Sample Date Client Info D1 Feb 2024 Machine Age hrs Client Info 55 Oil Age hrs Client Info 55 Oil Changed Client Info Not Changd Filter Changed Client Info Not Changd Sample Status ASTM D5185 20 26 PQ ASTM D5185 >10 -1 Sitver ppm ASTM D5185 >10 0 Tira ppm ASTM D5185 >10 2 Sitver ppm ASTM D5185 >10 2 Vanadium ppm ASTM D5185 >10 2 Vanadium ppm ASTM D5185 >20 3 Vanadium ppm </th <th>Test</th> <th>UOM</th> <th>Method</th> <th>Limit/Abn</th> <th>Current</th> <th>History1</th> <th>History2</th>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 55 Filter Age hrs Client Info 55 Filter Age hrs Client Info Not Changd Filter Changed Client Info Not Changd Sample Status ABNORMAL PQ ASTM D5185m >20 26 Nickel ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >20 3 Vanadum ppm ASTM D5185m >20 3 Veil	Sample Number		Client Info		JR0183569		
Oil Age hrs Client Info 55 Filter Age hrs Client Info S5 Oil Changed Client Info Not Chang Sample Status Client Info Not Chang PQ ASTM D5185m >20 26 Iron ppm ASTM D5185m >10 -1 Nickel ppm ASTM D5185m >10 0 Silver ppm ASTM D5185m >10 2 Copper ppm ASTM D5185m >10 4 Tin ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >20 2 Yellow Metal scalar *Visual NONE Yellow Metal scalar	Sample Date		Client Info		01 Feb 2024		
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Oil Changed Client Info Not Changd Filter Changed Client Info Not Changd Sample Status ABNORMAL PQ ASTM D8184 21 PC ASTM D5185m >20 26 Nickel ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m 0 1 Lead ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >10 2 Vanadum ppm ASTM D5185m >20 3 Yellow Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE	Oil Age	hrs	Client Info		55		
Filter Changed Sample Status Client Info Not Changed ABNORMAL PQ ASTM D8184 21 Iron ppm ASTM D5185m >20 26 Nickel ppm ASTM D5185m >10 <1 Nickel ppm ASTM D5185m <1 Silver ppm ASTM D5185m <1 Aluminum ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >10 2 Vellow Metal scalar *Visual NONE NONE Vellow Metal scalar *Visual NONE Vellow Metal scalar *Visual NONE Silicon <	Filter Age	hrs	Client Info		55		
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Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m<>10 2 Lead ppm ASTM D5185m<>10 4 Copper ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >20 3 Yellow Metal scalar *Visual NONE NONE Potassium ppm ASTM D5185m >20 3 Particles >4µm ASTM D7647 >5000 A126722 Particles >4µm ASTM D7647 >100 5 Particles >4µm ASTM D7647 >40	Nickel	ppm	ASTM D5185m	>10	0		
Aluminum ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >10 4 Copper ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >10 2 White Metal scalar *Visual NONE 0 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Potassium ppm ASTM D5185m >20 3 Particles >4µm ASTM D7647 >5000 ▲ 126722 Particles >4µm ASTM D7647 >100 0 Particles >4µm ASTM D7647 >40 0	Titanium	ppm	ASTM D5185m		<1		
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Tin ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m 0 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 21 Potassium ppm ASTM D5185m >20 3 Paticles >4µm ASTM D7647 >5000 A 126722 Particles >6µm ASTM D7647 >160 53 Particles >6µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >30 0 Particles >71µm ASTM D7647 >30 0 Silt scalar *Visual NONE NONE <t< th=""><th>Lead</th><th>ppm</th><th>ASTM D5185m</th><th>>10</th><th>4</th><th></th><th></th></t<>	Lead	ppm	ASTM D5185m	>10	4		
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White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 Paticles >4µm ASTM D7647 >5000 ▲ 126722 Particles >6µm ASTM D7647 >1600 53 Particles >14µm ASTM D7647 >100 0 Particles >38µm ASTM D7647 >10 0 Particles >14µm ASTM D7647 >3 0 Particles >38µm ASTM D7647 >3 0 Silt scalar *Visual NONE NONE Sold scalar *Visual NONE NORE	Tin	ppm	ASTM D5185m	>10	2		
Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 3 Potassium ppm ASTM D5185m >20 3 Particles >4µm ASTM D7647 >5000 ▲ 126722 Particles >6µm ASTM D7647 >100 ▲ 31407 Particles >6µm ASTM D7647 >100 5 Particles >1µm ASTM D7647 >10 0 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >10 0 Solt scalar *Visual NONE MONE Solt scalar *Visual NONE NONE Solt scalar *Visual NONE NORE <th>Vanadium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th></th> <th></th>	Vanadium	ppm	ASTM D5185m		0		
Silicon ppm ASTM D5185m >20 21 Potassium ppm ASTM D5185m >20 3 Water WC Method >0.1 NEG Particles >4µm ASTM D7647 >5000 ▲ 126722 Particles >6µm ASTM D7647 >100 ▲ 31407 Particles >6µm ASTM D7647 >100 53 Particles >3µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Solit scalar *Visual NONE NONE Silt scalar *Visual NORE NONE Sodium scalar *Visual NORM NORML	White Metal	scalar	*Visual	NONE	NONE		
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Particles >6µm ASTM D7647 >1300 ▲ 31407 Particles >14µm ASTM D7647 >160 53 Particles >21µm ASTM D7647 >40 5 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/4 24/22/13 Silt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORM NORML Godr scalar *Visual NORM NORML Boron ppm ASTM D5185m 6 3 Boron ppm ASTM D5185m 0 <td< th=""><th>Water</th><th></th><th>WC Method</th><th>>0.1</th><th>NEG</th><th></th><th></th></td<>	Water		WC Method	>0.1	NEG		
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Particles >21µm ASTM D7647 >40 5 Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 24/22/13 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Boron ppm ASTM D5185m 6 3 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 <th>Particles >6µm</th> <th></th> <th>ASTM D7647</th> <th>>1300</th> <th>🔺 31407</th> <th></th> <th></th>	Particles >6µm		ASTM D7647	>1300	🔺 31407		
Particles >38µm ASTM D7647 >10 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 24/22/13 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 Boron scalar *Visual NORML NORML Barium ppm ASTM D5185m 4 Magnesium ppm ASTM D5185m 0 <1 Manganese ppm ASTM D5185m 3570	Particles >14µm		ASTM D7647	>160	53		
Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 24/22/13 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 Godor scalar *Visual NORML NORML Godor scalar *Visual NORML NORML Boron ppm ASTM D5185m 6 3 Barium ppm ASTM D5185m 0 -1 Molybdenum ppm ASTM D5185m 145 </th <th>Particles >21µm</th> <th></th> <th>ASTM D7647</th> <th>>40</th> <th>5</th> <th></th> <th></th>	Particles >21µm		ASTM D7647	>40	5		
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Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 4 Boron ppm ASTM D5185m 6 3 Barium ppm ASTM D5185m 0 7 Molybdenum ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 0 <1 Phosphorus ppm ASTM D5185m 145 98 Phosphorus ppm ASTM D5185m 145 98 Phosphorus ppm ASTM D5185m 1290 987 Zinc ppm ASTM D5185m 1640 1191 Sulfur ppm ASTM D5185m 18 1.17	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 4 Boron ppm ASTM D5185m 6 3 Barium ppm ASTM D5185m 0 7 Molybdenum ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 145 98 Phosphorus ppm ASTM D5185m 145 98 Phosphorus ppm ASTM D5185m 1290 987 Zinc ppm ASTM D5185m 1640 1191 Sulfur ppm ASTM D5185m 18 1.17	Appearance	scalar	*Visual	NORML	NORML		
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Boron ppm ASTM D5185m 6 3 Barium ppm ASTM D5185m 0 7 Molybdenum ppm ASTM D5185m 0 <1 Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 145 98 Calcium ppm ASTM D5185m 145 98 Phosphorus ppm ASTM D5185m 145 98 Zinc ppm ASTM D5185m 1290 987 Sulfur ppm ASTM D5185m 1640 1191 Sulfur ppm ASTM D5185m 18 3378 Acid Number (AN) mg KOH/g ASTM D8045 1.8 1.17	Emulsified Water	scalar	*Visual	>0.1	NEG		
Boron ppm ASTM D5185m 6 3 Barium ppm ASTM D5185m 0 7 Molybdenum ppm ASTM D5185m 0 <1 Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 145 98 Calcium ppm ASTM D5185m 145 98 Phosphorus ppm ASTM D5185m 145 98 Zinc ppm ASTM D5185m 1290 987 Sulfur ppm ASTM D5185m 1640 1191 Sulfur ppm ASTM D5185m 18 3378 Acid Number (AN) mg KOH/g ASTM D8045 1.8 1.17							
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Molybdenum ppm ASTM D5185m 0 <1							
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Phosphorus ppm ASTM D5185m 1290 987 Zinc ppm ASTM D5185m 1640 1191 Sulfur ppm ASTM D5185m 1640 3378 Acid Number (AN) mg KOH/g ASTM D8045 1.8 1.17	J J	ppm					
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Acid Number (AN) mg KOH/g ASTM D8045 1.8 1.17		ppm		1640			
		ppm	ASTM D5185m		3378		
Visc @ 40°C cSt ASTM D445 57.0 29.4	,	mg KOH/g		1.8			
	Visc @ 40°C	cSt	ASTM D445	57.0	29.4		





Contact/Location: ETHAN SHEETS - JAMROCVA

Page 2 of 2