

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ABNORMAL

### Machine Id JOHN DI Component Reservoir Fluid HITACHI H

### JOHN DEERE 350GLC 1FF350GXALF814428 Component Reservoir Hydraulic System Fluid HITACHI HYDRAULIC SUPER EX 46HN (50 GAL)

RECOMMENDATION

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil. Oil and filter change at the time of sampling has been noted.



All component wear rates are normal.

## CONTAMINATION

The amount and size of particulates present in the system are acceptable.

## FLUID CONDITION

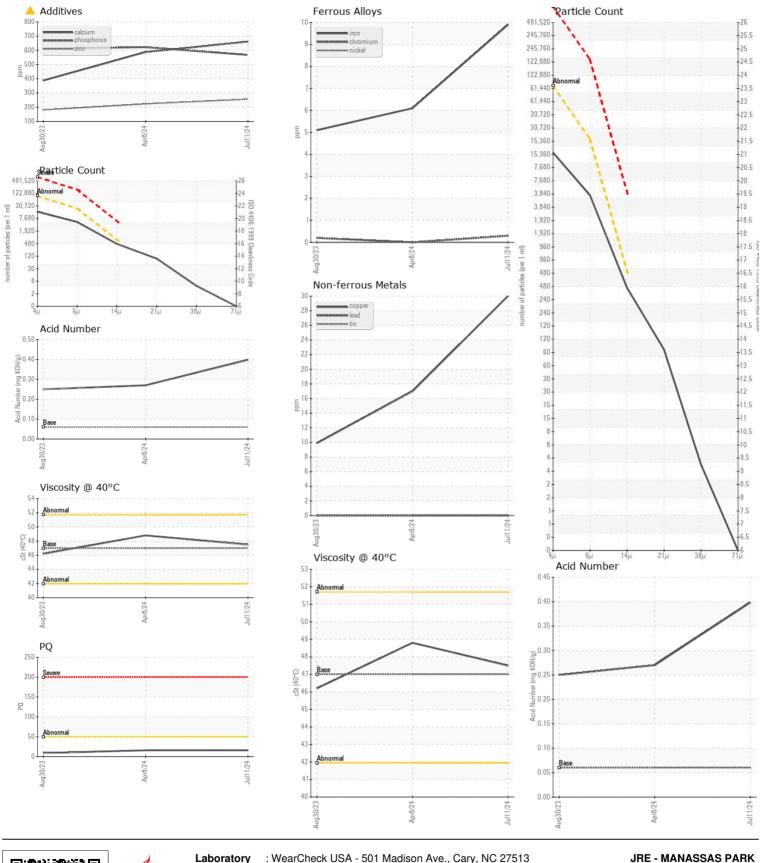
Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218573	JR0210998	JR0125956
Sample Date		Client Info		11 Jul 2024	08 Apr 2024	30 Aug 2023
Machine Age	hrs	Client Info		4985	4474	3876
Oil Age	hrs	Client Info		4985	4474	0
Filter Age	hrs	Client Info		4985	598	0
Oil Changed		Client Info		Changed	Not Changd	Oil Added
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>50	16	16	9
Iron	ppm	ASTM D5185m	>32	10	6	5
Chromium	ppm	ASTM D5185m	>9	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>9	3	1	<1
Lead	ppm	ASTM D5185m	>28	0	0	0
Copper	ppm	ASTM D5185m	>50	30	17	10
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>11	4	3	2
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	ppm	WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	14027	6381	11908
Particles >6µm		ASTM D7647	>20000	4581	535	1253
Particles >14µm		ASTM D7647	>640	408	27	28
Particles >21µm		ASTM D7647	>160	81	7	5
Particles >38µm		ASTM D7647	>40	4	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/19/16	20/16/12	21/17/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>21	0	2	0
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		<1	0	1
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		8	5	7
Calcium	ppm	ASTM D5185m	007	661	587	387
Phosphorus	ppm	ASTM D5185m	827	567	622	611
Zinc	ppm	ASTM D5185m	0	<b>A</b> 256	<u> </u>	<u> </u>
0.16		AOTH DELOS	10		004	700
Sulfur Acid Number (AN)	ppm mg KOH/g	ASTM D5185m ASTM D8045	13 0.06	833 0.398	904 0.27	739 0.25

Visc @ 40°C cSt ASTM D445 47

48.8 46.2

47.5



**JRE - MANASSAS PARK** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0218573 9107 OWENS DRIVE Received : 15 Jul 2024 ă Lab Number : 06235781 MANASSAS PARK, VA Tested : 16 Jul 2024 Unique Number : 11124615 : 16 Jul 2024 - Don Baldridge US 20111 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DON VEST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dvest@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)631-8500 F: (703)631-4715 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2