

## Machine Id JOHN DEERE 1FF350GXCHF812280 Component Hydraulic System Fluid HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

## RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.



All component wear rates are normal.

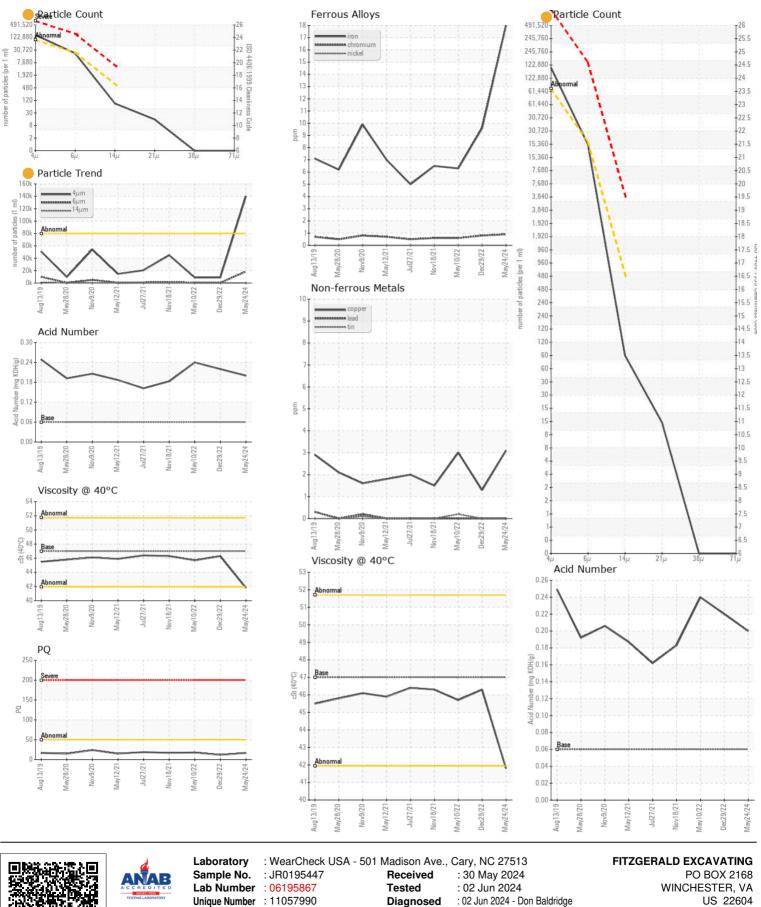
## CONTAMINATION

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

## FLUID CONDITION

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0195447	JR0154320	JR0125017
Sample Date		Client Info		24 May 2024	29 Dec 2022	10 May 2022
Machine Age	hrs	Client Info		6316	4991	4469
Oil Age	hrs	Client Info		0	4991	0
Filter Age	hrs	Client Info		0	4991	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ATTENTION	NORMAL	NORMAL
PQ		ASTM D8184	>50	17	12	18
Iron	ppm	ASTM D5185m	>32	18	10	6
Chromium	ppm	ASTM D5185m	>9	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	0	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	2	2	2
Lead	ppm	ASTM D5185m	>28	0	0	0
Copper	ppm	ASTM D5185m	>50	3 0	1	3
Tin	ppm	ASTM D5185m	>5	-	0	
Vanadium White Metal	ppm	ASTM D5185m *Visual	NONE	<1 NONE		0 NONE
	scalar		-		NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>11	4	4	3
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	140007	8978	8822
Particles >6µm		ASTM D7647	>20000	18625	337	536
Particles >14µm		ASTM D7647	>640	75	21	28
Particles >21µm		ASTM D7647	>160	13	9	4
Particles >38µm		ASTM D7647	>40	0	2	0
Particles >71µm		ASTM D7647	>10	0	1	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>24/21/13</b>	20/16/12	20/16/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	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
Codium			. 01	4	.4	.4
Sodium	ppm	ASTM D5185m	>21	<1	<1	<1
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0		0
Manganese	ppm	ASTM D5185m			<1 0	0
Magnesium	ppm	ASTM D5185m		<1 22		
Calcium	ppm	ASTM D5185m	007	33 343	3	8
Phosphorus Zinc	ppm	ASTM D5185m	827 0		530 52	522 69
Sulfur	ppm	ASTM D5185m ASTM D5185m		74	52 254	270
Acid Number (AN)	ppm mg KOH/g	ASTM D5185m ASTM D8045	13 0.06	3222	254 0.22	0.24
. ,		ASTM D8045 ASTM D445		0.20 41.8		
Visc @ 40°C	cSt	ASTIM D445	47	41.8	46.3	45.7



Certificate L2367 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)

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Submitted By: TECHNICIAN ACCOUNT Page 2 of 2

Contact: Service Manager