

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ABNORMAL



RECOMMENDATION

## Area Store 4 - Fairmont Machine Id JOHN DEERE 135G 1FF135GXHNF503775 Component Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (41 GAL)

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

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All component wear rates are normal.

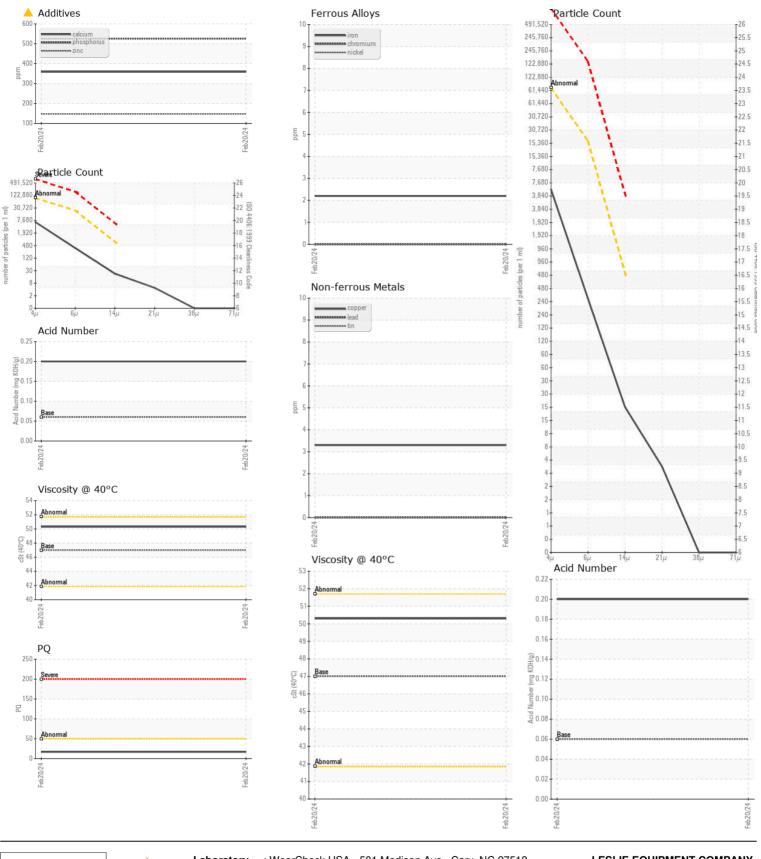
## CONTAMINATION

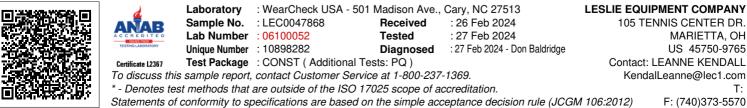
The amount and size of particulates present in the system are acceptable.

## FLUID CONDITION

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

<b>1</b>	MAL	/				
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047868		
Sample Date		Client Info		20 Feb 2024		
Machine Age	hrs	Client Info		598		
Oil Age	hrs	Client Info		598		
Filter Age	hrs	Client Info		598		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
PQ		ASTM D8184	>50	17		
Iron	ppm	ASTM D5185m	>32	2		
Chromium	ppm	ASTM D5185m	>9	0		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>9	0		
Lead	ppm	ASTM D5185m	>28	0		
Copper	ppm	ASTM D5185m	>50	3		
Tin	ppm	ASTM D5185m	>5	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>11	1		
Potassium	ppm	ASTM D5185m	>20	0		
Water		WC Method	>0.075	NEG		
Particles >4µm		ASTM D7647	>80000	5648		
Particles >6µm		ASTM D7647	>20000	323		
Particles >14µm		ASTM D7647	>640	19		
Particles >21µm		ASTM D7647	>160	4		
Particles >38µm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)		20/16/11		
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		
Emulsified Water	scalar	*Visual	>0.075	NEG		
Sodium	ppm	ASTM D5185m	>21	2		
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		ہ <1		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		ہ <1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		359		
Phosphorus	ppm	ASTM D5185m	827	526		
Zinc	ppm	ASTM D5185m	027	→ 147		
Sulfur	ppm	ASTM D5185m	13	466		
Acid Number (AN)	mg KOH/g	ASTM D5105III ASTM D8045	0.06	0.20		
Visc @ 40°C	cSt	ASTM D8045 ASTM D445	47	50.3		
150 @ 40 0	601	A31W D443	47	50.5		





Submitted By: STORE 4 - FAIRMONT - KENNY HARVEY