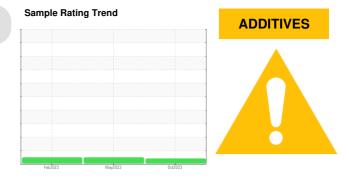


## **PROBLEM SUMMARY**

JOHN DEERE 250G 1FF250GXPNF611983

HITACHI HYDRAULIC SUPER EX 46HN (63 GAL)

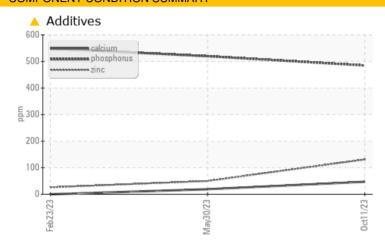
Store 5 - Cross Lanes



## COMPONENT CONDITION SUMMARY

Component

**Hydraulic System** 



### RECOMMENDATION

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

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	NORMAL	
Zinc	ppm	ASTM D5185m	0	<u> </u>	50	26	

Customer Id: LESMAROH Sample No.: LEC0043089 Lab Number: 05978203 Test Package: CONST



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Fluid			?	Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.	
Flush System			?	Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.	

## HISTORICAL DIAGNOSIS



## 30 May 2023 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



## 23 Feb 2023 Diag: Don Baldridge

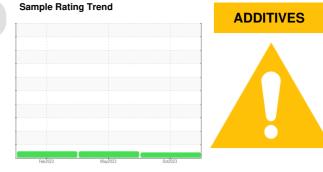


Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**



### Area Store 5 - Cross Lanes Machine Id JOHN DEERE 250G 1FF250GXPNF611983 Component Hydraulic System Fluid

HITACHI HYDRAULIC SUPER EX 46HN (63 GAL)

		10		may2023 00220.		
SAMPLE INF	ORMATION	method	limit/base	current	history1	history2
Sample Numbe	r	Client Info		LEC0043089	LEC0041862	LEC0039416
Sample Date		Client Info		11 Oct 2023	30 May 2023	23 Feb 2023
Machine Age	hrs	Client Info		1007	474	400
Oil Age	hrs	Client Info		607	474	400
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR META	ALS	method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	14	12	17
Iron	ppm	ASTM D5185m	>32	2	2	0
Chromium	ppm	ASTM D5185m	>9	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	0	0	0
Lead	ppm	ASTM D5185m		0	<1	0
Copper	ppm	ASTM D5185m	>50	7	4	3
Tin	ppm	ASTM D5185m	>5	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		6	4	0
Calcium	ppm	ASTM D5185m		47	19	0
Phosphorus	ppm	ASTM D5185m	827	485	520	549
Zinc	ppm	ASTM D5185m		▲ 131	50	26
Sulfur	ppm	ASTM D5185m	13	607	183	86
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	13	<1	<1
Sodium	ppm	ASTM D5185m	>21	1	0	1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEA	NLINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	7043	543	1048
Particles >6µm		ASTM D7647	>20000	815	115	189
Particles >14µn	1	ASTM D7647	>640	11	10	16
Particles >21µn	n	ASTM D7647	>160	2	2	3
Particles >38µn	1	ASTM D7647	>40	1	0	1
Particles >71µn		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/17/11	16/14/10	17/15/11
FLUID DEGF		method	limit/base	current	history1	history2
Acid Number (A	N) mg KOH/g	ASTM D8045	0.06	0.25	0.16	0.13
(	, , ,					

# DIAGNOSIS

A Recommendation

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

## Wear

All component wear rates are normal.

### Contamination

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

### Fluid Condition

The AN level is acceptable for this fluid. The carboxylate level of this fluid is acceptable.



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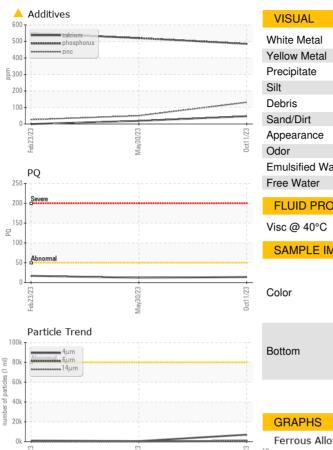
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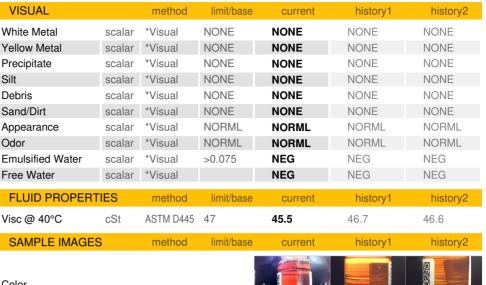
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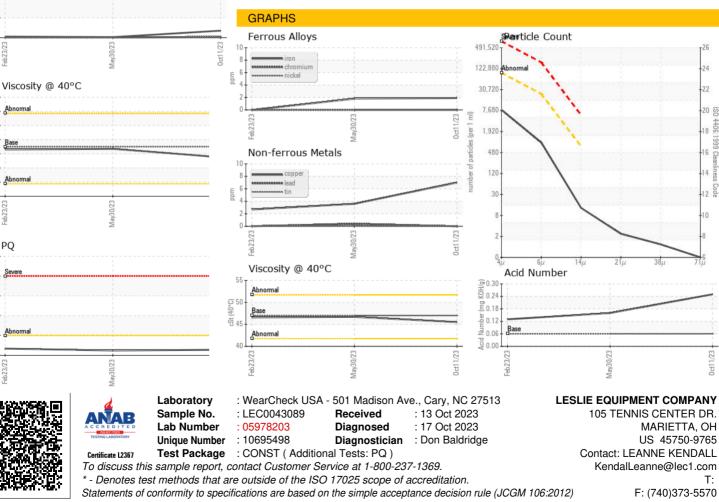
ΡQ 250

Abnorma 42

## **OIL ANALYSIS REPORT**







Submitted By: STORE 3 - NORTON - BRIAN YOUTZY