

# **PROBLEM SUMMARY**

Sample Rating Trend



Machine Id

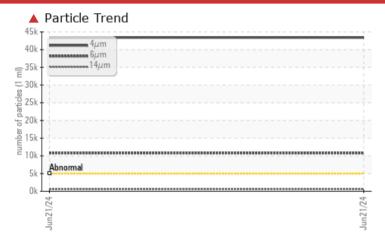
# **JOHN DEERE 1N0C770PHP4240003**

**Left Hydraulic System** 

Fluid

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

### **COMPONENT CONDITION SUMMARY**



### RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS										
Sample Status			SEVERE							
Particles >4µm	ASTM D7647	>5000	<b>43391</b>							
Particles >6µm	ASTM D7647	>1300	<b>10762</b>							
Particles >14μm	ASTM D7647	>160	<u></u> 571		***					
Particles >21μm	ASTM D7647	>40	<u> </u>							
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>23/21/16</b>							

Customer Id: JOHJOHUS Sample No.: WC0818511 Lab Number: 06219568 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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 Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	Resample in 30-45 days to monitor this situation.			
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.			
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.			
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

# HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

## Sample Rating Trend

ISO

ISO

Machine Id

# **JOHN DEERE 1N0C770PHP4240003**

**Left Hydraulic System** 

Fluid

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

## DIAGNOSIS

#### Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

#### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

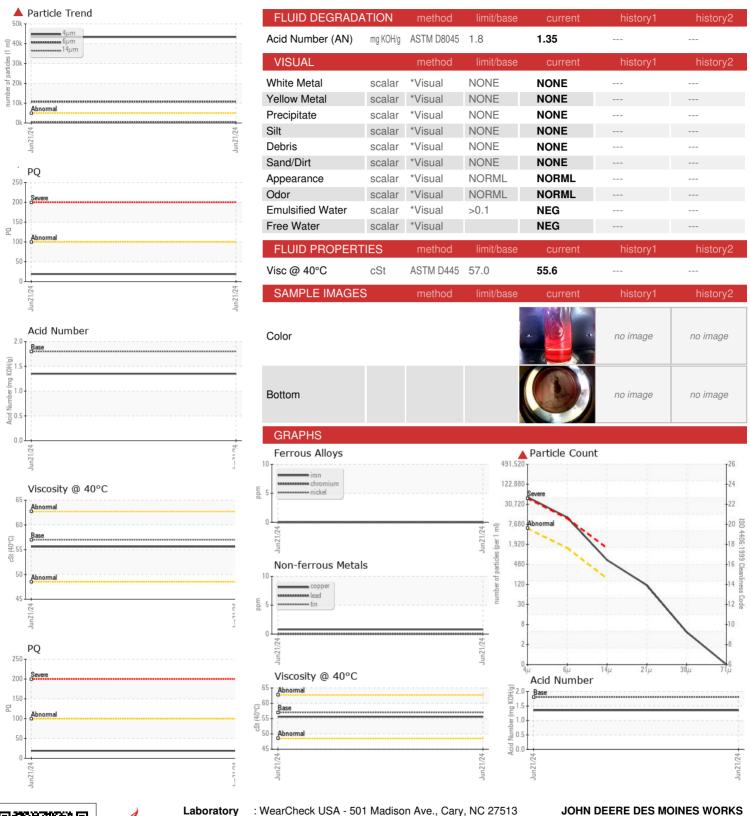
### **Fluid Condition**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

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iAL)			Jun <del>2</del> 024				
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2	
	ATION		IIIIII/Dase			HISTOLYZ	
Sample Number		Client Info		WC0818511			
Sample Date		Client Info		21 Jun 2024			
3-	nrs	Client Info		9			
- 3-	nrs	Client Info		9			
Oil Changed		Client Info		Not Changd			
Sample Status				SEVERE			
CONTAMINATION		method	limit/base	current	history1	history2	
Water		WC Method	>0.1	NEG			
WEAR METALS		method	limit/base	current	history1	history2	
PQ		ASTM D8184		19			
Iron	opm	ASTM D5185m	>20	0			
	opm	ASTM D5185m	>10	0			
	opm	ASTM D5185m	>10	0			
	opm	ASTM D5185m		0			
Silver	opm	ASTM D5185m		0			
Aluminum	opm	ASTM D5185m	>10	<1			
Lead	opm	ASTM D5185m	>10	0			
Copper	opm	ASTM D5185m	>75	<1			
Tin	opm	ASTM D5185m	>10	0			
Vanadium	opm	ASTM D5185m		0			
Cadmium	opm	ASTM D5185m		0			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	opm	ASTM D5185m	6	5			
Barium	opm	ASTM D5185m	0	<1			
Molybdenum	opm	ASTM D5185m	0	0			
Manganese	opm	ASTM D5185m		<1			
Magnesium	opm	ASTM D5185m	145	108			
Calcium	opm	ASTM D5185m	3570	3669			
Phosphorus	opm	ASTM D5185m	1290	1069			
Zinc	opm	ASTM D5185m	1640	1240			
Sulfur	opm	ASTM D5185m		4187			
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	opm	ASTM D5185m	>20	10			
Sodium	opm	ASTM D5185m		3			
Potassium	opm	ASTM D5185m	>20	<1			
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	<b>43391</b>			
Particles >6µm		ASTM D7647	>1300	<b>10762</b>			
Particles >14μm		ASTM D7647	>160	<u> </u>			
Particles >21µm		ASTM D7647	>40	<u> </u>			
Particles >38μm		ASTM D7647	>10	4			
Particles >71µm		ASTM D7647	>3	0			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>23/21/16</b>			



## OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: WC0818511 Lab Number : 06219568 Unique Number : 11097765

Received : 25 Jun 2024 **Tested** 

: 26 Jun 2024 Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 26 Jun 2024 - Wes Davis

JOHNSTON, IA US 50130 Contact: NATHAN BRACE bracenathant@johndeere.com T: (515)289-7140

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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)

Report Id: JOHJOHUS [WUSCAR] 06219568 (Generated: 06/26/2024 17:01:49) Rev: 1

Contact/Location: NATHAN BRACE - JOHJOHUS

6595 NW 56TH ST