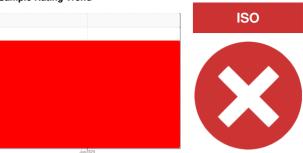


PROBLEM SUMMARY

Sample Rating Trend



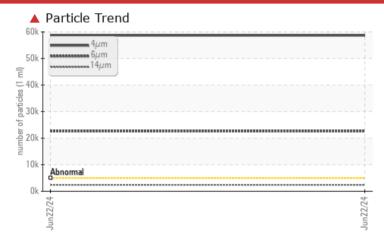
Machine Id

JOHN DEERE 1N0C770PHR4249013

Left Hydraulic System

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	▲ 58681						
Particles >6µm	ASTM D7647	>1300	22612						
Particles >14µm	ASTM D7647	>160	2399						
Particles >21µm	ASTM D7647	>40	▲ 554						
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/22/18						

Customer Id: JOHJOHUS Sample No.: WC0818513 Lab Number: 06219567 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

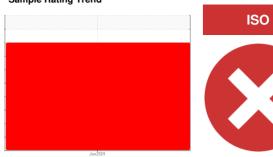
RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	Resample in 30-45 days to monitor this situation.			
Check Breathers			?	The 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



Machine Id

JOHN DEERE 1N0C770PHR4249013

Left Hydraulic System

JOHN DEERE HY-GARD HYD/TRANS (--- G

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.

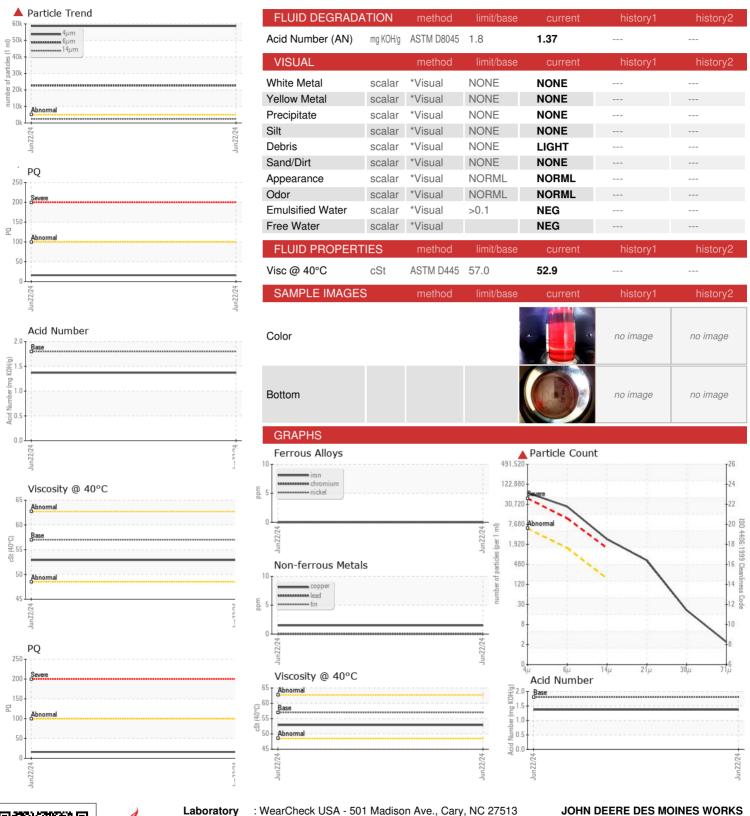
Fluid Condition

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

iAL)				Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0818513		
Sample Date		Client Info		22 Jun 2024		
Machine Age	hrs	Client Info		91		
Oil Age	hrs	Client Info		91		
Oil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		16		
Iron	ppm	ASTM D5185m	>20	0		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	2		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	6		
Barium	ppm	ASTM D5185m	0	<1		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	145	105		
Calcium	ppm	ASTM D5185m	3570	3681		
Phosphorus	ppm	ASTM D5185m	1290	1082		
Zinc	ppm	ASTM D5185m	1640	1244		
Sulfur	ppm	ASTM D5185m		4189		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	12		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	2		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 58681		
Particles >6µm		ASTM D7647	>1300	22612		
Particles >14μm		ASTM D7647	>160	2399		
Particles >21µm		ASTM D7647	>40	▲ 554		
Particles >38μm		ASTM D7647	>10	18		
Particles >71μm		ASTM D7647	>3	2		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	23/22/18		



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number : 06219567

: WC0818513

Received **Tested** Unique Number : 11097764 Diagnosed

: 26 Jun 2024

: 26 Jun 2024 - Wes Davis

: 25 Jun 2024

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

Test Package : CONST (Additional Tests: PQ) Certificate 12367 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) 6595 NW 56TH ST