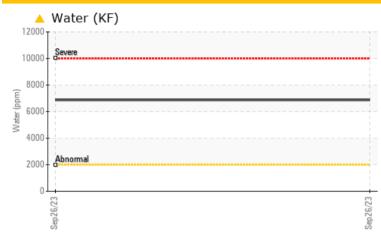


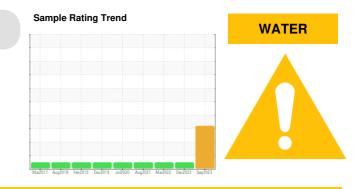
# **PROBLEM SUMMARY**

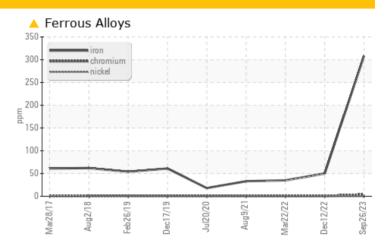
#### Area [W46760] Machine Id HITACHI 470 HCMJAA70K00030813 Component

Left Swing Drive Gear Case Fluid JOHN DEERE GL-5 80W90 (--- QTS)

# COMPONENT CONDITION SUMMARY







### RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

# PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>200	<u> </u>	50	35
Water	%	ASTM D6304	>0.2	<b>A</b> 0.687		
ppm Water	ppm	ASTM D6304	>2000	<u> </u>		
Appearance	scalar	*Visual	NORML	🔺 MILKY	NORML	NORML

Customer Id: JAMASH Sample No.: JR0180031 Lab Number: 05963704 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Check Water Access			?	We advise that you check for the source of water entry.	

### HISTORICAL DIAGNOSIS

### 12 Dec 2022 Diag: Don Baldridge



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



view report

### 22 Mar 2022 Diag: Jonathan Hester



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.

09 Aug 2021 Diag: Don Baldridge

# NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.





# **OIL ANALYSIS REPORT**

#### Area [W46760] Machine Id HITACHI 470 HCMJAA70K00030813 Component

Left Swing Drive Gear Case Fluid JOHN DEERE GL-5 80W90 (--- QTS)

### DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### 🔺 Wear

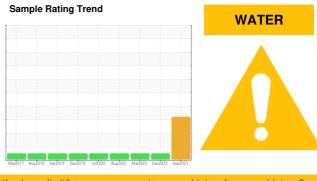
Gear wear is indicated.

### Contamination

Appearance is unacceptable There is a moderate concentration of water present in the oil.

#### Fluid Condition

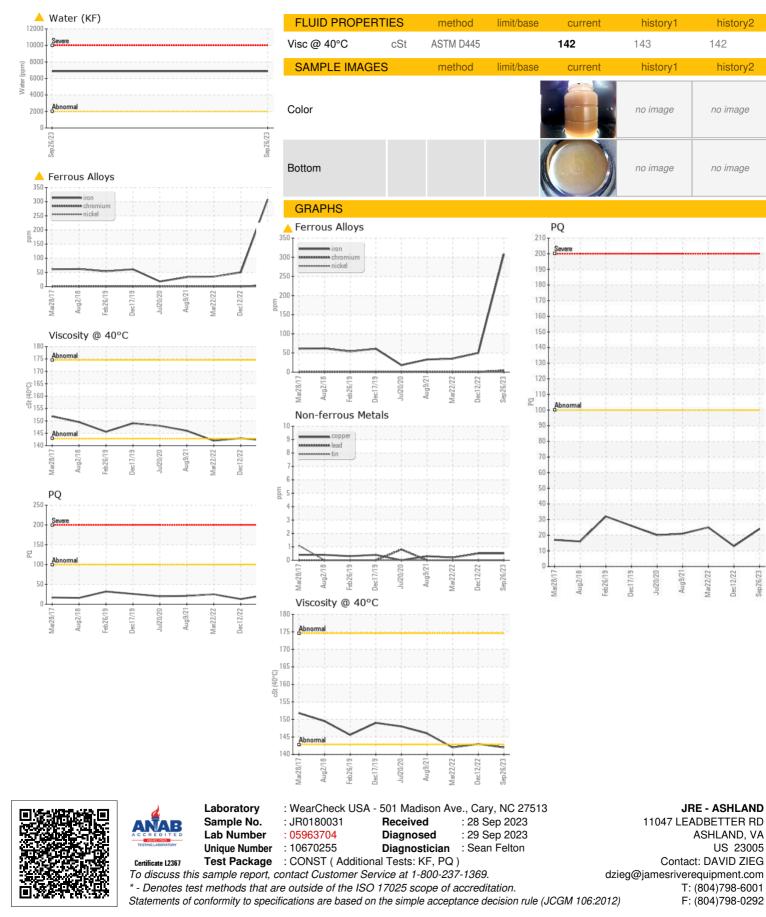
The condition of the oil is acceptable for the time in service.



		Mar2017 Au		Jul2020 Aug2021 Mar2022 Dec2		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0180031	JR0147338	JR0125426
Sample Date		Client Info		26 Sep 2023	12 Dec 2022	22 Mar 2022
Machine Age	hrs	Client Info		12978	11953	10953
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		24	13	25
Iron	ppm	ASTM D5185m	>200	<u> </u>	50	35
Chromium	ppm	ASTM D5185m	>10	4	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		<1	2	<1
_ead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Fin	ppm	ASTM D5185m		0	0	0
Antimony	ppm	ASTM D5185m	>5			
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		38	82	103
Barium	ppm	ASTM D5185m		2	0	0
Nolybdenum	ppm	ASTM D5185m		- <1	0	0
Manganese	ppm	ASTM D5185m		5	<1	<1
Magnesium	ppm	ASTM D5185m		3	1	<1
Calcium	ppm	ASTM D5185m		33	11	18
Phosphorus	ppm	ASTM D5185m		611	886	980
Zinc	ppm	ASTM D5185m		22	20	5
Sulfur	ppm	ASTM D5185m		23154	25056	24381
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		5	4	2
Sodium	ppm	ASTM D5185m		<1	1	0
Potassium	ppm	ASTM D5185m	>20	10	0	1
Vater	%	ASTM D6304	>0.2	<u> </u>		
opm Water	ppm	ASTM D6304	>2000	<u> </u>		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML		NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	NEG
Free Water	scalar	*Visual	2 VIL	NÊG	pcatione @AVID 2	
	ooului	riouui			1120	1120



# **OIL ANALYSIS REPORT**



Contact/Location: DAVID ZIEG - JAMASH