

## **PROBLEM SUMMARY**

#### Sample Rating Trend

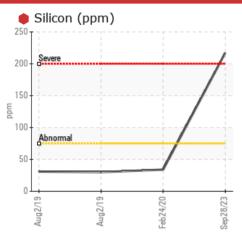
# DIRT

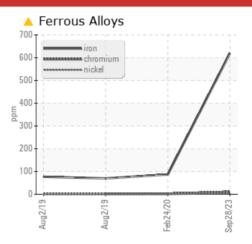
# HITACHI ZX135LC-6N HCMDAT60J00200241 - EVAL

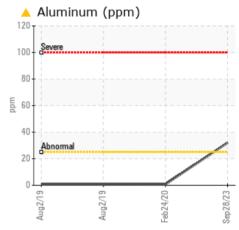
**Right Final Drive** 

**JOHN DEERE GL-5 80W90 (--- GAL)** 

#### COMPONENT CONDITION SUMMARY







#### **RECOMMENDATION**

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS										
Sample Status				SEVERE	NORMAL	NORMAL				
Iron	ppm	ASTM D5185m	>500	<u> </u>	87	77				
Chromium	ppm	ASTM D5185m	>10	<u> </u>	3	2				
Aluminum	ppm	ASTM D5185m	>25	<b>△</b> 32	<1	<1				
Silicon	ppm	ASTM D5185m	>75	<b>217</b>	34	31				

Customer Id: JAMASH Sample No.: JR0180136 Lab Number: 05965627 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

# RECOMMENDED ACTIONS Action Status Date Done By Description Resample -- -- ? We recommend an early resample to monitor this condition. Check Dirt Access -- -- ? We advise that you check all areas where dirt can enter the system.

#### HISTORICAL DIAGNOSIS

#### 24 Feb 2020 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 oil. The condition of the oil is acceptable for the time in service.



#### 02 Aug 2019 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 oil. The condition of the oil is acceptable for the time in service.



#### 02 Aug 2019 Diag: Don Baldridge

NORMAL

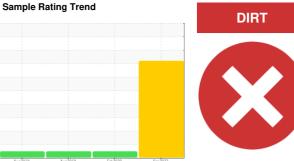


Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.





## **OIL ANALYSIS REPORT**



# HITACHI ZX135LC-6N HCMDAT60J00200241 - EVAL

**Right Final Drive** 

**JOHN DEERE GL-5 80W90 (--- GAL)** 

#### **DIAGNOSIS**

#### Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

Gear wear is indicated.

#### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

#### **Fluid Condition**

The oil is no longer serviceable due to the presence of contaminants.

		Aug201:	9 Aug2019	Feb 2020 S	ep 2023	
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0180136	JR0034760	JR0015897
Sample Date		Client Info		28 Sep 2023	24 Feb 2020	02 Aug 2019
Machine Age	hrs	Client Info		3056	988	453
Oil Age	hrs	Client Info		1056	0	453
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				SEVERE	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		239	106	103
Iron	ppm	ASTM D5185m	>500	<u>^</u> 619	87	77
Chromium	ppm	ASTM D5185m	>10	<b>1</b> 1	3	2
Nickel	ppm	ASTM D5185m	>10	4	0	0
Titanium	ppm	ASTM D5185m		3	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>△</b> 32	<1	<1
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	>5		3	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		53	57	59
Barium	ppm	ASTM D5185m		0	6	6
Molybdenum	ppm	ASTM D5185m		0	0	1
Manganese	ppm	ASTM D5185m		8	2	2
Magnesium	ppm	ASTM D5185m		7	1	1
Calcium	ppm	ASTM D5185m		32	8	10
Phosphorus	ppm	ASTM D5185m		486	452	450
Zinc	ppm	ASTM D5185m		64	35	30
Sulfur	ppm	ASTM D5185m		15773	12024	12640
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>217</b>	34	31
Sodium	ppm	ASTM D5185m		1	<1	<1
Potassium	ppm	ASTM D5185m	>20	12	0	0
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT

NONE

NONE

NONE

NONE

NONE

**NORML** 

**NORML** 

**NEG** 

**NEG** 

Yellow Metal

Precipitate

Silt

Debris

Odor

Sand/Dirt

Appearance

Free Water

**Emulsified Water** 

scalar

scalar

scalar

scalar

scalar

scalar

scalar

\*Visual

\*Visual

\*Visual

\*Visual

\*Visual

\*Visual

\*Visual

scalar \*Visual

scalar \*Visual

NONE

NONE

NONE

NONE

NONE

**NORML** 

NORML

>0.2

NONE

NONE

NONE

LIGHT

NONE

**NORML** 

NORML

NEG

NEG

NONE

NONE

NONE

NONE

NONE

**NORML** 

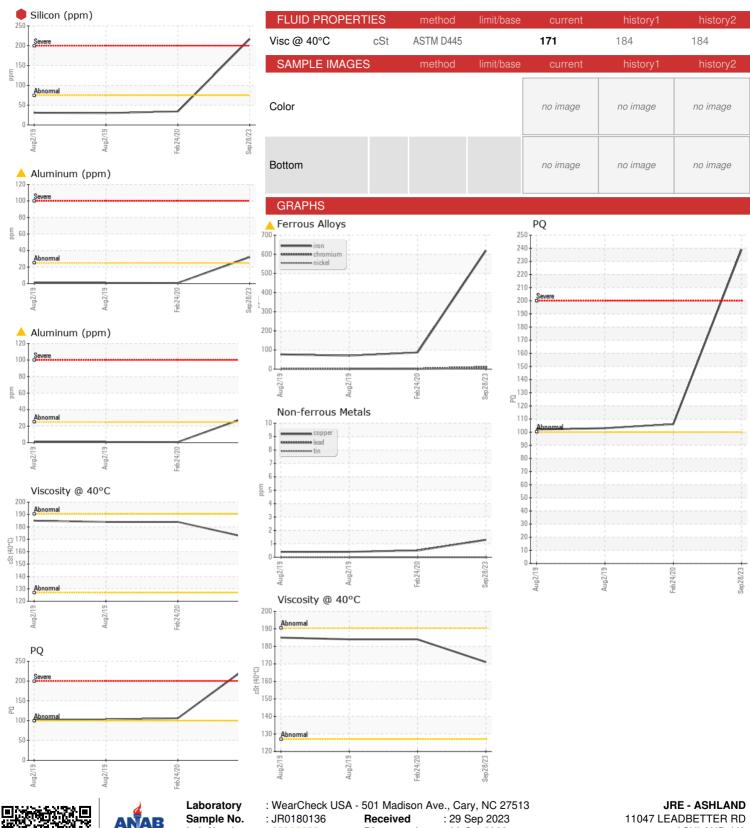
NORML

NEG

NEG



## **OIL ANALYSIS REPORT**





Lab Number Unique Number

: 05965627 : 10672178

Diagnosed

: 02 Oct 2023 Diagnostician : Don Baldridge Test Package : CONST ( Additional Tests: PQ )

ASHLAND, VA US 23005 Contact: DAVID ZIEG dzieg@jamesriverequipment.com

Contact/Location: DAVID ZIEG - JAMASH

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (804)798-6001 F: (804)798-0292

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)