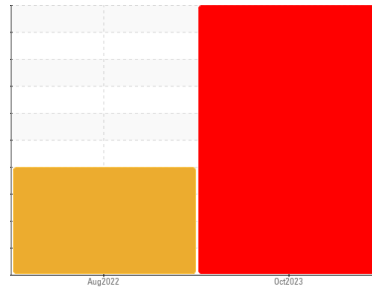


PROBLEM SUMMARY

Area
[W47006]
 Machine Id
JOHN DEERE 323E 1T0323EKTJJ328397
 Component
Left Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

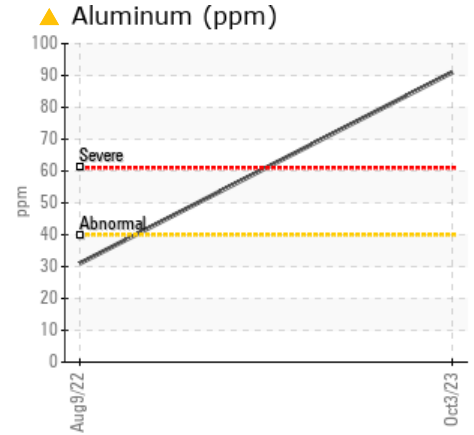
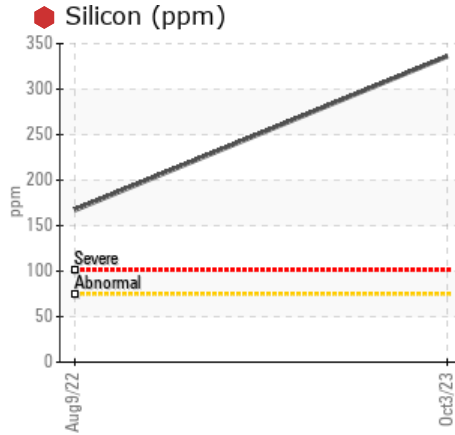
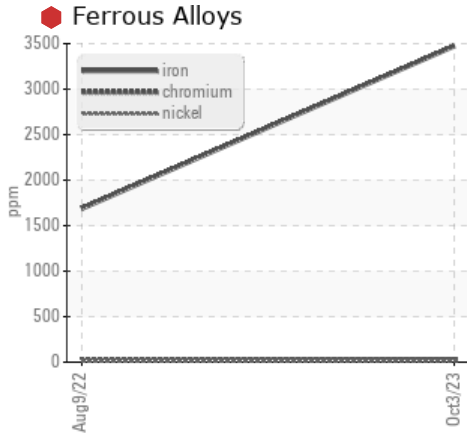
Sample Rating Trend



WEAR



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	---
Iron	ppm	ASTM D5185m	>750	◆ 3472	▲ 1685	---
Chromium	ppm	ASTM D5185m	>9	◆ 30	▲ 18	---
Nickel	ppm	ASTM D5185m	>10	▲ 15	9	---
Aluminum	ppm	ASTM D5185m	>40	▲ 91	▲ 31	---
Silicon	ppm	ASTM D5185m	>75	◆ 336	▲ 167	---

Customer Id: JAMASH
 Sample No.: JR0179330
 Lab Number: 05969192
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
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

09 Aug 2022 Diag: Don Baldrige

DIRT



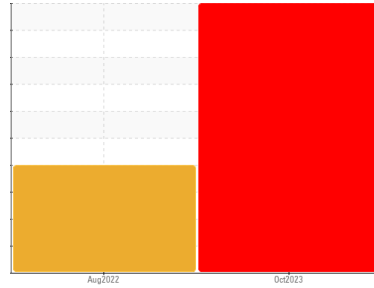
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. All other metal levels are typical for a new component breaking in. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
[W47006]
 Machine Id
JOHN DEERE 323E 1T0323EKTJJ328397
 Component
Left Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JR0179330	JR0124002	---
Sample Date	Client Info		03 Oct 2023	09 Aug 2022	---
Machine Age	hrs	Client Info	824	362	---
Oil Age	hrs	Client Info	824	362	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			SEVERE	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184	>1250	826	94	---
Iron	ppm	ASTM D5185m	>750	3472	1685
Chromium	ppm	ASTM D5185m	>9	30	18
Nickel	ppm	ASTM D5185m	>10	15	9
Titanium	ppm	ASTM D5185m		5	2
Silver	ppm	ASTM D5185m		0	0
Aluminum	ppm	ASTM D5185m	>40	91	31
Lead	ppm	ASTM D5185m	>15	0	<1
Copper	ppm	ASTM D5185m	>40	3	2
Tin	ppm	ASTM D5185m	>10	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1
Cadmium	ppm	ASTM D5185m		<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		34	85
Barium	ppm	ASTM D5185m		12	57
Molybdenum	ppm	ASTM D5185m		5	2
Manganese	ppm	ASTM D5185m		24	18
Magnesium	ppm	ASTM D5185m		12	28
Calcium	ppm	ASTM D5185m		21	41
Phosphorus	ppm	ASTM D5185m		274	787
Zinc	ppm	ASTM D5185m		<1	34
Sulfur	ppm	ASTM D5185m		20845	25056

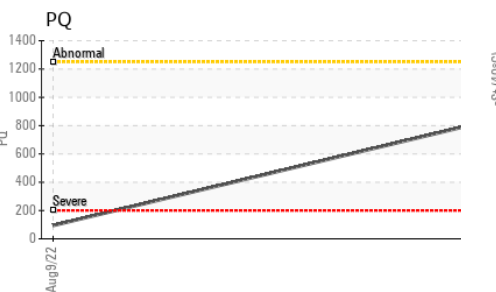
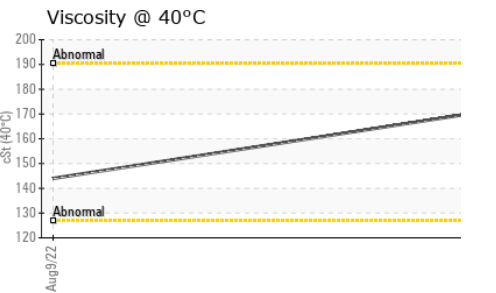
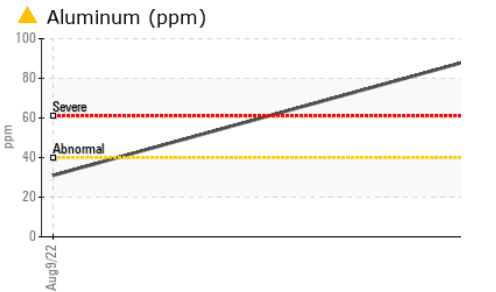
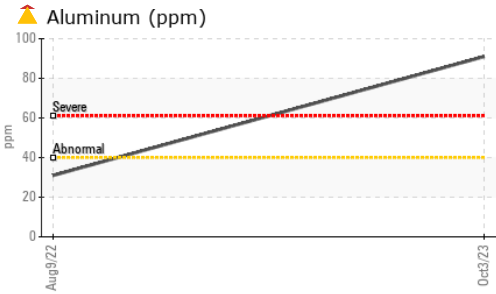
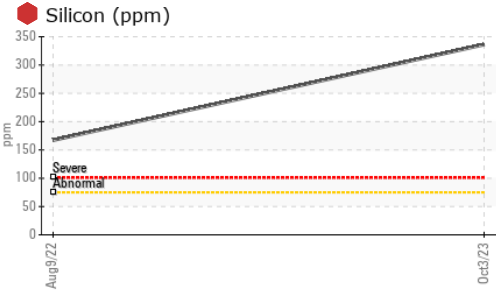
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	336	167
Sodium	ppm	ASTM D5185m	>51	5	15
Potassium	ppm	ASTM D5185m	>20	17	33

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

OIL ANALYSIS REPORT

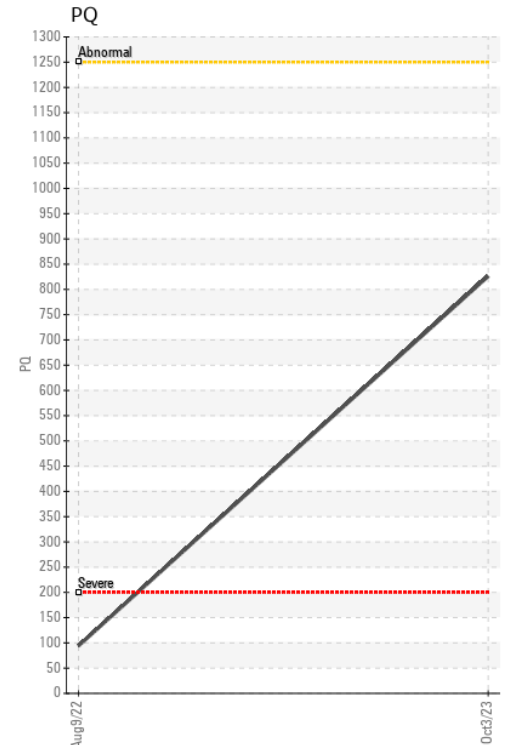
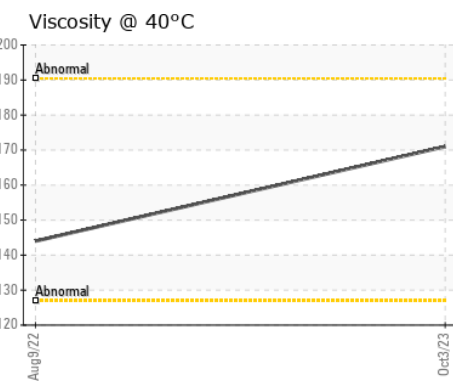
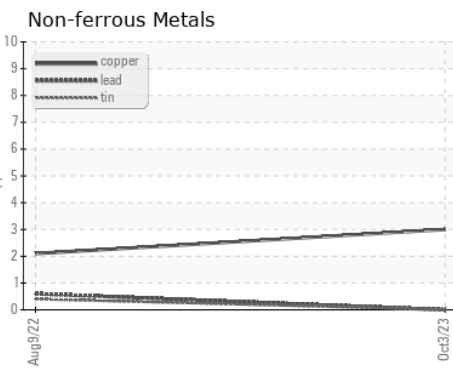


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		171	144	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color					no image	no image	no image
Bottom					no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0179330 **Received** : 04 Oct 2023
Lab Number : 05969192 **Diagnosed** : 06 Oct 2023
Unique Number : 10675743 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005
 Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com
 T: (804)798-6001
 F: (804)798-0292

Certificate L2367
 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.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)