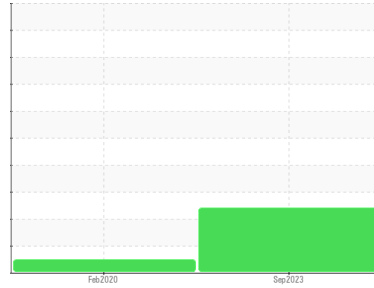


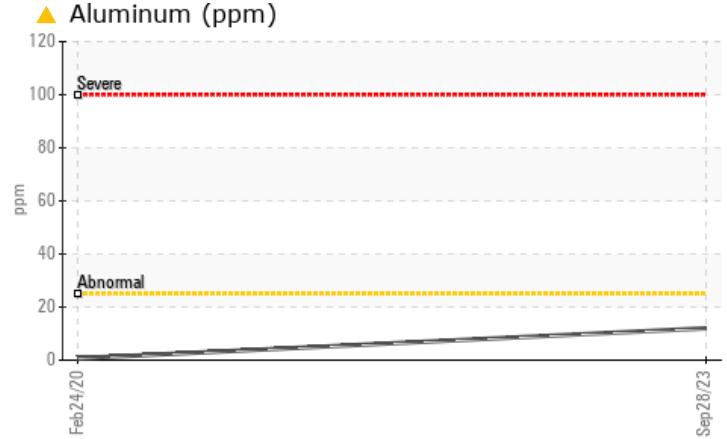
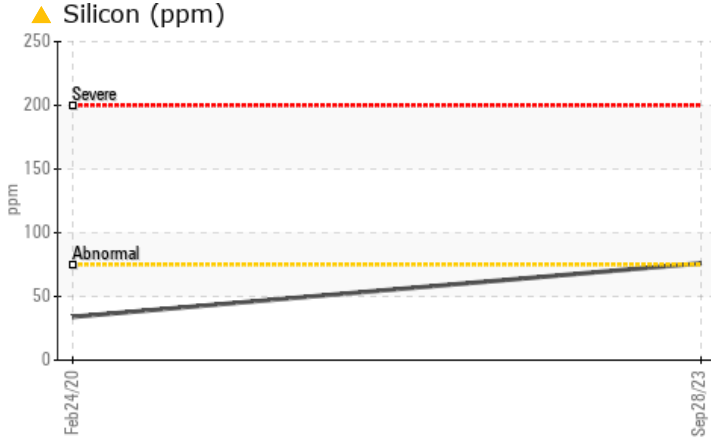
PROBLEM SUMMARY

Sample Rating Trend



Machine Id
HITACHI ZX135LC-6N HCMDAT60J00200241 - EVAL
Component
Left Final Drive
Fluid
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. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	---
Aluminum	ppm	ASTM D5185m	>25	▲ 12	<1	---
Silicon	ppm	ASTM D5185m	>75	▲ 76	34	---

Customer Id: JAMASH
Sample No.: JR0180137
Lab Number: 05965604
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
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

24 Feb 2020 Diag: Don Baldrige

NORMAL



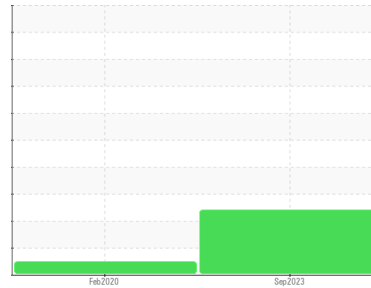
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend


DIRT


Machine Id
HITACHI ZX135LC-6N HCMDAT60J00200241 - EVAL

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. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

▲ Wear

All component wear rates are normal.

▲ Contamination

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

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JR0180137	JR0034761	---
Sample Date	Client Info		28 Sep 2023	24 Feb 2020	---
Machine Age	hrs	Client Info	3056	988	---
Oil Age	hrs	Client Info	1056	988	---
Oil Changed	Client Info		Changed	N/A	---
Sample Status			ABNORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		112	116	---
Iron	ppm	ASTM D5185m >500	278	90	---
Chromium	ppm	ASTM D5185m >10	5	2	---
Nickel	ppm	ASTM D5185m >10	3	0	---
Titanium	ppm	ASTM D5185m	1	<1	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	▲ 12	<1	---
Lead	ppm	ASTM D5185m >25	0	0	---
Copper	ppm	ASTM D5185m >50	<1	<1	---
Tin	ppm	ASTM D5185m >10	0	0	---
Antimony	ppm	ASTM D5185m >5	---	2	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	60	---
Barium	ppm	ASTM D5185m	0	7	---
Molybdenum	ppm	ASTM D5185m	0	0	---
Manganese	ppm	ASTM D5185m	4	2	---
Magnesium	ppm	ASTM D5185m	6	<1	---
Calcium	ppm	ASTM D5185m	31	9	---
Phosphorus	ppm	ASTM D5185m	502	481	---
Zinc	ppm	ASTM D5185m	68	38	---
Sulfur	ppm	ASTM D5185m	16007	12706	---

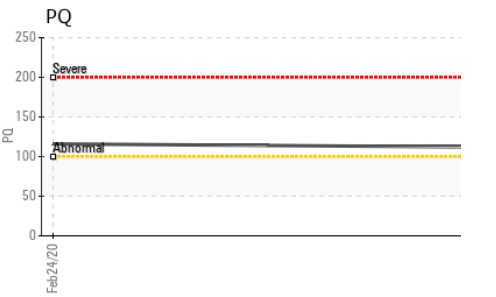
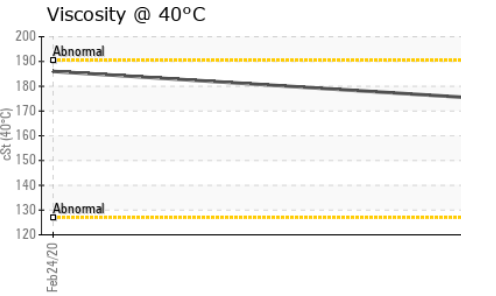
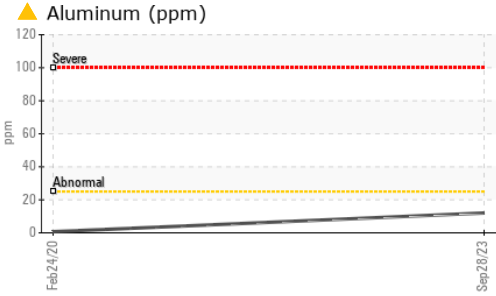
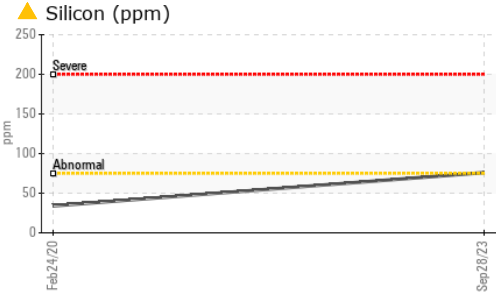
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 76	34	---
Sodium	ppm	ASTM D5185m	<1	<1	---
Potassium	ppm	ASTM D5185m >20	6	2	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	LIGHT	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	VLITE	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	---
Appearance	scalar	*Visual NORML	NORML	NORML	---
Odor	scalar	*Visual NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual >0.2	NEG	NEG	---
Free Water	scalar	*Visual	NEG	NEG	---

OIL ANALYSIS REPORT



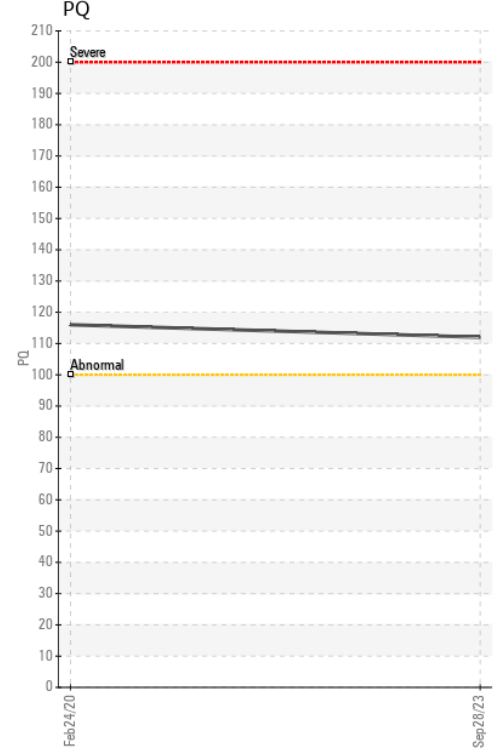
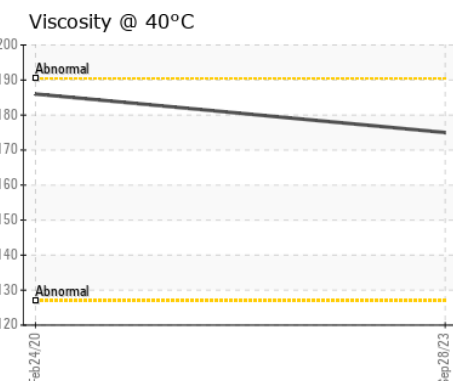
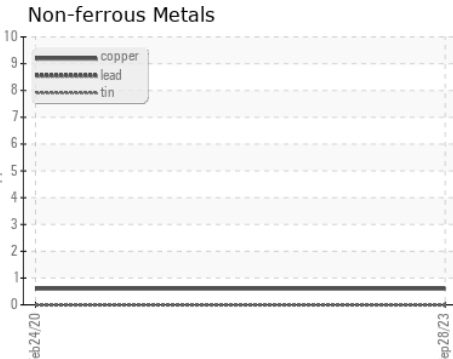
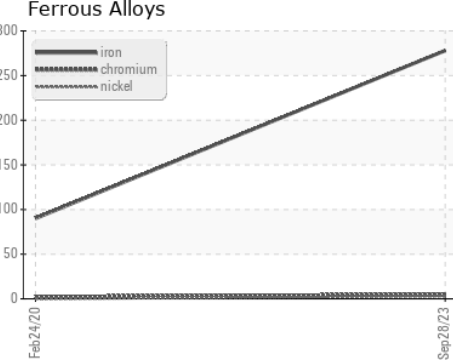
FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	175	186	---

SAMPLE IMAGES

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0180137 **Received** : 29 Sep 2023
Lab Number : 05965604 **Diagnosed** : 02 Oct 2023
Unique Number : 10672155 **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

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)