

PROBLEM SUMMARY

Sample Rating Trend

WEAR



Area

[W52559]

Machine Id

JOHN DEERE 333E 1T0333EMCGE298722

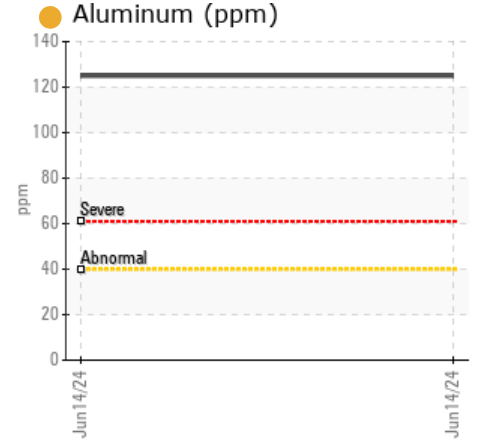
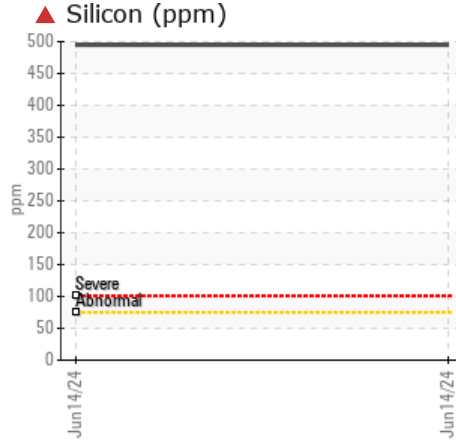
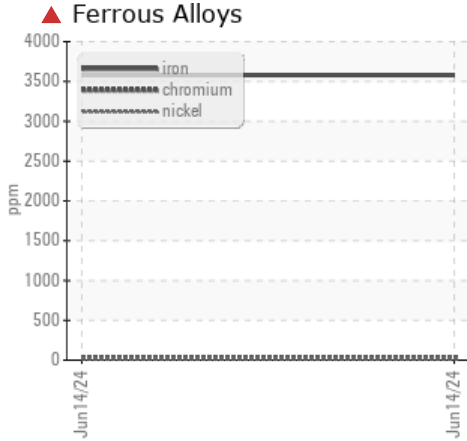
Component

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. 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	---	---
Iron	ppm	ASTM D5185m	>750	▲ 3580	---	---
Chromium	ppm	ASTM D5185m	>9	▲ 32	---	---
Nickel	ppm	ASTM D5185m	>10	▲ 16	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 495	---	---

Customer Id: JAMASH
Sample No.: JR0211769
Lab Number: 06213704
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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
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

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR


Area

[W52559]

Machine Id

JOHN DEERE 333E 1T0333EMCGE298722

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. 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. The water content is negligible.

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		JR0211769	---	---
Sample Date	Client Info		14 Jun 2024	---	---
Machine Age	hrs	Client Info	2036	---	---
Oil Age	hrs	Client Info	1000	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184	>1250	235	---	---
Iron	ppm	ASTM D5185m	>750	▲ 3580	---
Chromium	ppm	ASTM D5185m	>9	▲ 32	---
Nickel	ppm	ASTM D5185m	>10	▲ 16	---
Titanium	ppm	ASTM D5185m		9	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>40	● 125	---
Lead	ppm	ASTM D5185m	>15	0	---
Copper	ppm	ASTM D5185m	>40	4	---
Tin	ppm	ASTM D5185m	>10	0	---
Vanadium	ppm	ASTM D5185m		2	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	---
Barium	ppm	ASTM D5185m		4	---
Molybdenum	ppm	ASTM D5185m		5	---
Manganese	ppm	ASTM D5185m		26	---
Magnesium	ppm	ASTM D5185m		12	---
Calcium	ppm	ASTM D5185m		55	---
Phosphorus	ppm	ASTM D5185m		2128	---
Zinc	ppm	ASTM D5185m		45	---
Sulfur	ppm	ASTM D5185m		29796	---

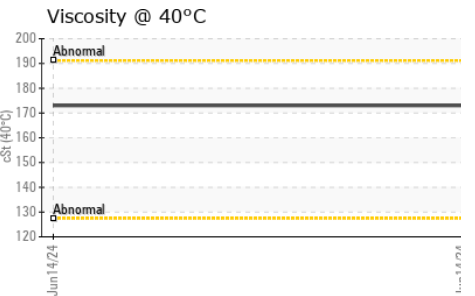
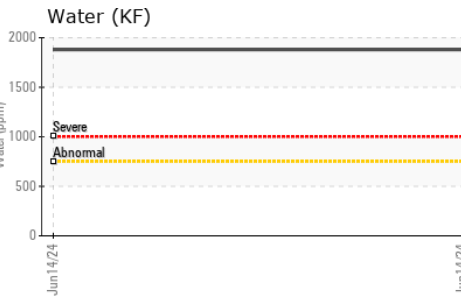
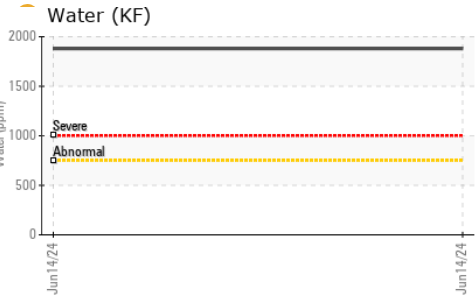
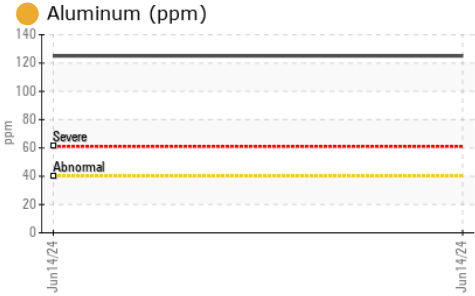
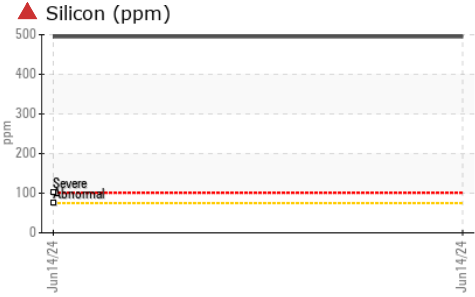
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ 495	---
Sodium	ppm	ASTM D5185m	>51	15	---
Potassium	ppm	ASTM D5185m	>20	26	---
Water	%	ASTM D6304	>0.075	0.188	---
ppm Water	ppm	ASTM D6304	>750	1880	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	0.2%	---
Free Water	scalar	*Visual		NEG	---

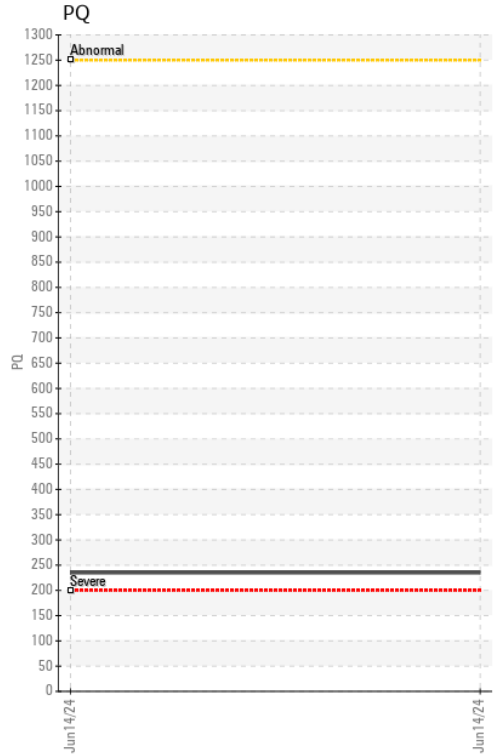
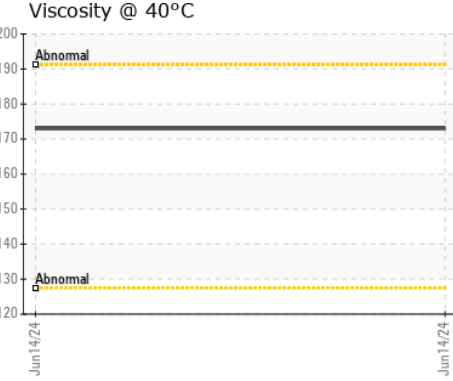
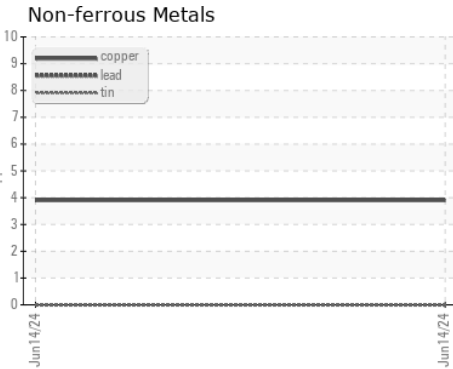
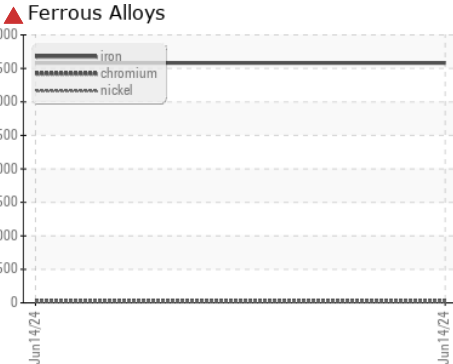
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	173	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211769 **Received** : 18 Jun 2024
Lab Number : **06213704** **Tested** : 20 Jun 2024
Unique Number : 11086568 **Diagnosed** : 20 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF, 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)