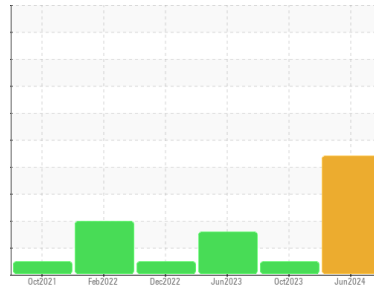


PROBLEM SUMMARY

Area
[05W47555]
 Machine Id
JOHN DEERE PM061171
 Component
Rear Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (8 GAL)

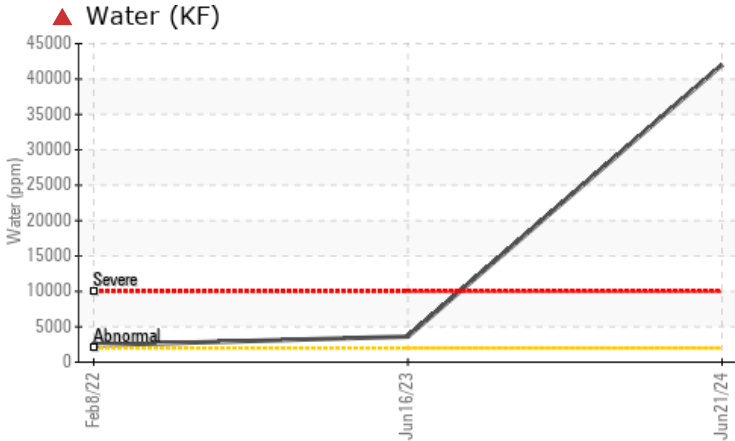
Sample Rating Trend



WATER



COMPONENT CONDITION SUMMARY




RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: Check for water and metal shavings)

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	ABNORMAL
Water	%	ASTM D6304	>.2	▲ 4.20	---	▲ 0.362
ppm Water	ppm	ASTM D6304	>2000	▲ 42000	---	▲ 3620
Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Emulsified Water	scalar	*Visual	>.2	▲ 0.2%	NEG	0.2%

Customer Id: FITWINVA
Sample No.: JR0218315
Lab Number: 06220017
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
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

NORMAL



23 Oct 2023 Diag: Sean Felton

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



WATER



16 Jun 2023 Diag: Sean Felton

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

view report



NORMAL



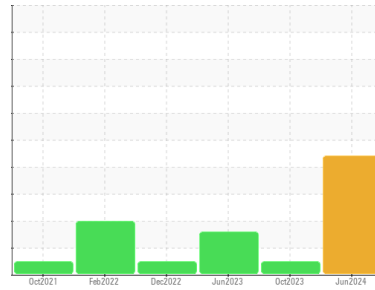
28 Dec 2022 Diag: Don Baldrige

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

WATER


Area
[05W47555]
 Machine Id
JOHN DEERE PM061171
 Component
Rear Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (8 GAL)

DIAGNOSIS
▲ Recommendation

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: Check for water and metal shavings)

Wear

All component wear rates are normal.

▲ Contamination

Appearance is milky. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

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		JR0218315	JR0190179	JR0176359
Sample Date	Client Info		21 Jun 2024	23 Oct 2023	16 Jun 2023
Machine Age	hrs	Client Info	2994	2451	1457
Oil Age	hrs	Client Info	1000	0	2000
Oil Changed	Client Info		Changed	Not Changd	Changed
Sample Status			SEVERE	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		246	20	65
Iron	ppm	ASTM D5185m >500	241	15	76
Chromium	ppm	ASTM D5185m >10	2	0	<1
Nickel	ppm	ASTM D5185m >10	2	0	<1
Titanium	ppm	ASTM D5185m	1	0	<1
Silver	ppm	ASTM D5185m	<1	0	0
Aluminum	ppm	ASTM D5185m >25	6	<1	<1
Lead	ppm	ASTM D5185m >25	<1	<1	0
Copper	ppm	ASTM D5185m >100	17	4	10
Tin	ppm	ASTM D5185m >10	2	<1	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 6	32	8	11
Barium	ppm	ASTM D5185m 0	0	0	6
Molybdenum	ppm	ASTM D5185m 0	15	5	10
Manganese	ppm	ASTM D5185m	4	<1	2
Magnesium	ppm	ASTM D5185m 145	169	109	138
Calcium	ppm	ASTM D5185m 3570	3233	3150	3456
Phosphorus	ppm	ASTM D5185m 1290	1079	1023	1079
Zinc	ppm	ASTM D5185m 1640	1295	1209	1284
Sulfur	ppm	ASTM D5185m	3630	3610	4260

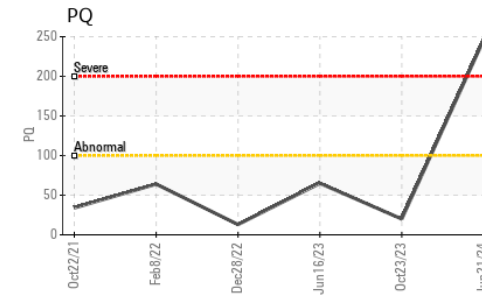
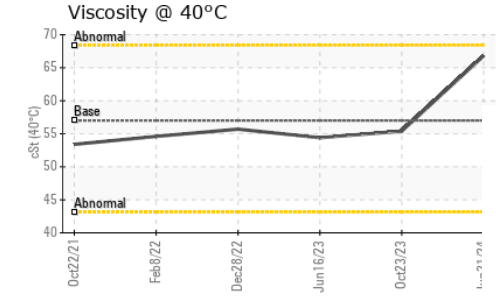
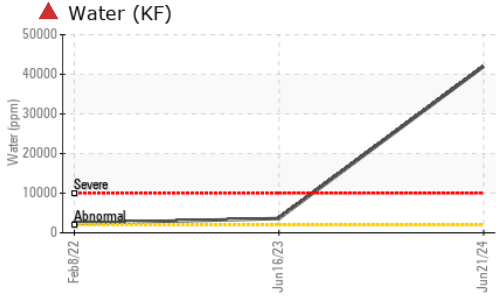
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	18	4	10
Sodium	ppm	ASTM D5185m	7	<1	3
Potassium	ppm	ASTM D5185m >20	2	0	<1
Water	%	ASTM D6304 >.2	▲ 4.20	---	▲ 0.362
ppm Water	ppm	ASTM D6304 >2000	▲ 42000	---	▲ 3620

VISUAL



	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	MODER	NONE	MODER
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	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	● MILKY	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >.2	▲ 0.2%	NEG	0.2%
Free Water	scalar	*Visual	NEG	NEG	NEG

OIL ANALYSIS REPORT

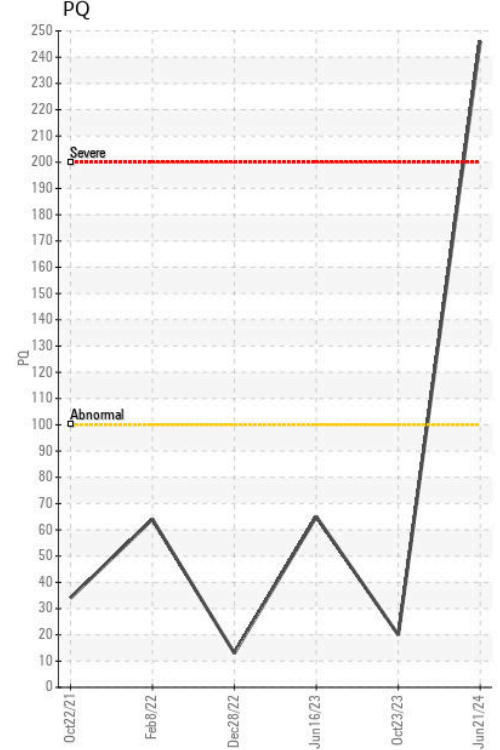
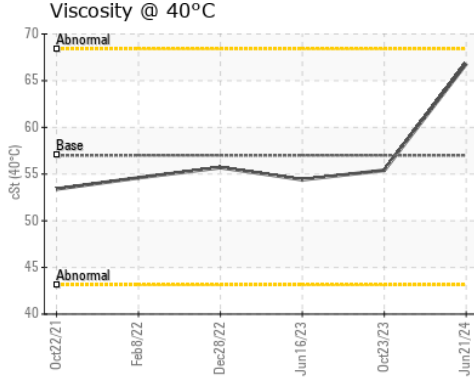
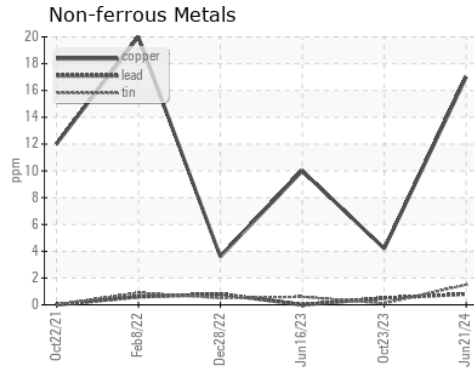
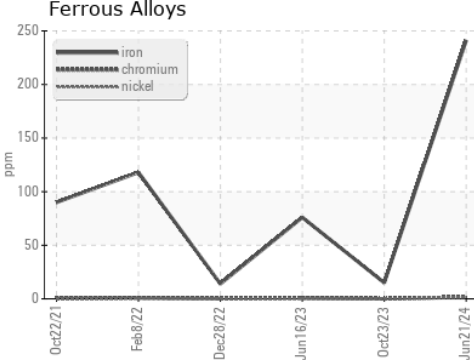


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	57.0	66.8	55.4	54.4

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. : JR0218315 **Received** : 25 Jun 2024
Lab Number : **06220017** **Tested** : 26 Jun 2024
Unique Number : 11098214 **Diagnosed** : 26 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF, PQ)

FITZGERALD EXCAVATING
 PO BOX 2168
 WINCHESTER, VA
 US 22604
 Contact: Service Manager

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)

T:
F: