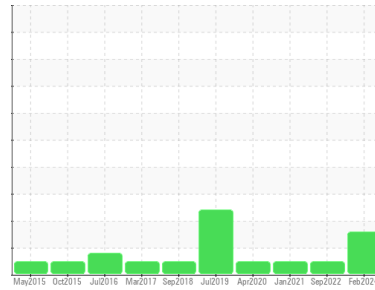


OIL ANALYSIS REPORT

Sample Rating Trend

WATER


Machine Id
JOHN DEERE 700K 1T0700KXTDE242140

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (14 GAL)

DIAGNOSIS
Recommendation

We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JR0200482	JR0125713	JR0068489
Sample Date	Client Info		26 Feb 2024	06 Sep 2022	06 Jan 2021
Machine Age	hrs	Client Info	4935	4462	3903
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Not Chngd	Not Chngd	Changed
Sample Status			ABNORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184	>50	20	9	17
Iron	ppm	ASTM D5185m	>23	11	11
Chromium	ppm	ASTM D5185m	>9	3	2
Nickel	ppm	ASTM D5185m	>5	0	0
Titanium	ppm	ASTM D5185m		<1	0
Silver	ppm	ASTM D5185m		0	<1
Aluminum	ppm	ASTM D5185m	>9	4	3
Lead	ppm	ASTM D5185m	>28	<1	<1
Copper	ppm	ASTM D5185m	>51	17	16
Tin	ppm	ASTM D5185m	>5	0	0
Antimony	ppm	ASTM D5185m		---	0
Vanadium	ppm	ASTM D5185m		0	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		165	208
Barium	ppm	ASTM D5185m		<1	0
Molybdenum	ppm	ASTM D5185m		155	157
Manganese	ppm	ASTM D5185m		<1	<1
Magnesium	ppm	ASTM D5185m		523	516
Calcium	ppm	ASTM D5185m	87	1349	1436
Phosphorus	ppm	ASTM D5185m	727	776	833
Zinc	ppm	ASTM D5185m	900	954	960
Sulfur	ppm	ASTM D5185m	1500	2618	2815

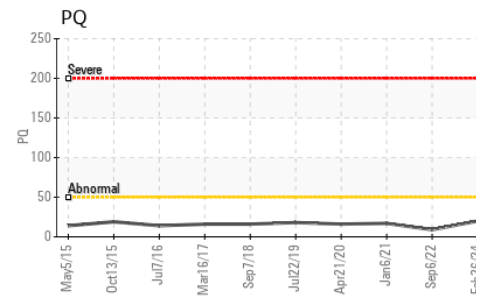
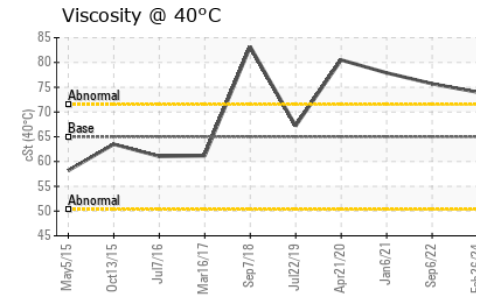
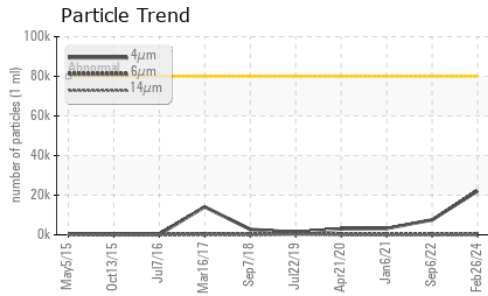
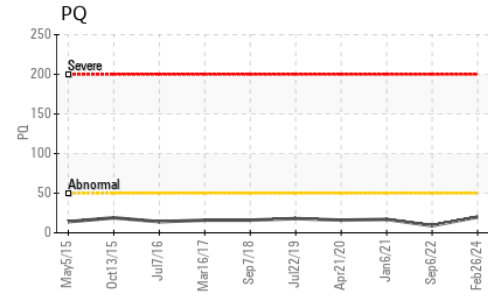
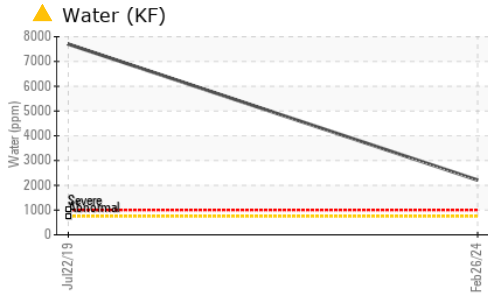
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>31	9	8
Sodium	ppm	ASTM D5185m	>21	0	2
Potassium	ppm	ASTM D5185m	>20	0	0
Water	%	ASTM D6304	>0.075	▲ 0.221	---
ppm Water	ppm	ASTM D6304	>750	▲ 2210	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>80000	22158	7554	3180
Particles >6µm	ASTM D7647	>20000	283	144	136
Particles >14µm	ASTM D7647	>640	9	25	13
Particles >21µm	ASTM D7647	>160	2	8	4
Particles >38µm	ASTM D7647	>40	1	1	0
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>23/21/16	22/15/10	20/14/12	19/14/11

OIL ANALYSIS REPORT

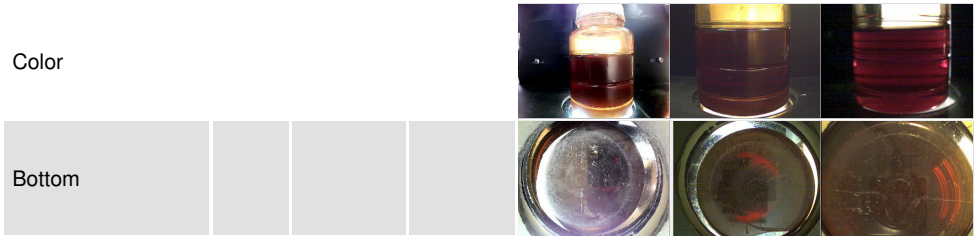


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.44	1.47	1.356

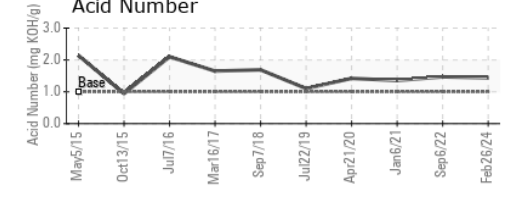
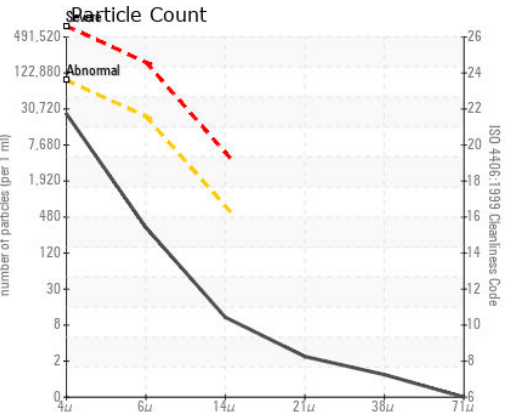
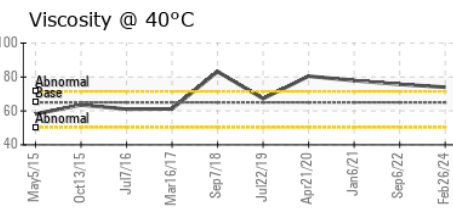
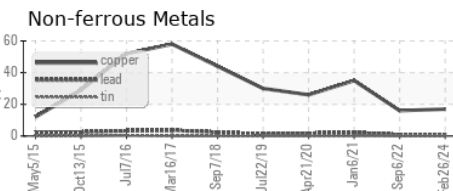
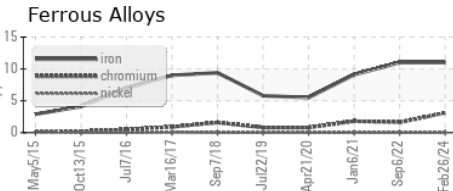
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65	74.0	75.7	77.9

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200482 **Received** : 27 Feb 2024
Lab Number : 06101513 **Tested** : 28 Feb 2024
Unique Number : 10899743 **Diagnosed** : 29 Feb 2024 - Jonathan Hester
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)