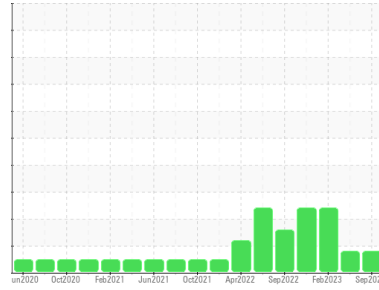


PROBLEM SUMMARY

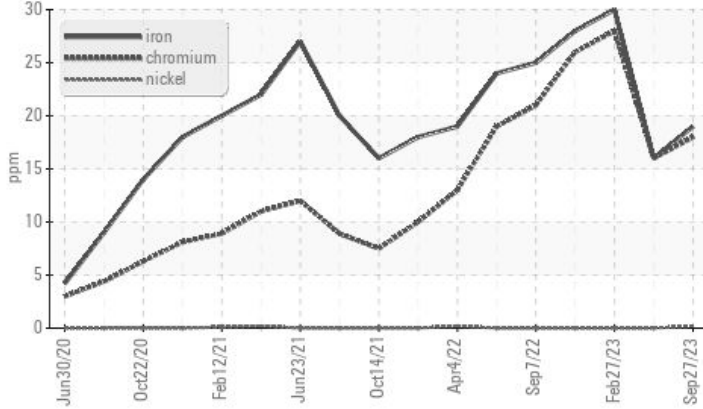
Sample Rating Trend



Machine Id
JOHN DEERE 844L 1DW844LXVLF705479
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Chromium	ppm	ASTM D5185m	>10	▲ 18	▲ 16	▲ 28

Customer Id: JAMASH
 Sample No.: JR0179313
 Lab Number: 05966173
 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

05 Jun 2023 Diag: Don Baldrige

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The chromium level has decreased, but is still abnormal. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



27 Feb 2023 Diag: Jonathan Hester

WEAR



No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. The chromium level is abnormal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

view report



05 Dec 2022 Diag: Angela Borella

WEAR

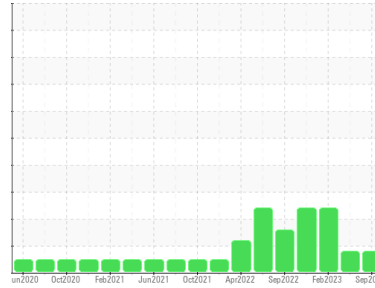


No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. The chromium level is abnormal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

view report



Machine Id
JOHN DEERE 844L 1DW844LXVLF705479
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- GAL)


DIAGNOSIS

Recommendation
 No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
 The chromium level is abnormal. All other component wear rates are normal.

Contamination
 The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

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		JR0179313	JR0164713	JR0147023
Sample Date	Client Info		27 Sep 2023	05 Jun 2023	27 Feb 2023
Machine Age	hrs	Client Info	8933	8437	7955
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Not Changed	Not Changd	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		27	15	14
Iron	ppm	ASTM D5185m >20	19	16	▲ 30
Chromium	ppm	ASTM D5185m >10	▲ 18	▲ 16	▲ 28
Nickel	ppm	ASTM D5185m >10	< 1	0	0
Titanium	ppm	ASTM D5185m	< 1	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	3	2	5
Lead	ppm	ASTM D5185m >10	< 1	0	0
Copper	ppm	ASTM D5185m >75	4	3	5
Tin	ppm	ASTM D5185m >10	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	< 1	<1	<1
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m	2	2	0
Calcium	ppm	ASTM D5185m 87	99	100	88
Phosphorus	ppm	ASTM D5185m 727	662	600	522
Zinc	ppm	ASTM D5185m 900	865	806	648
Sulfur	ppm	ASTM D5185m 1500	1797	1909	1230

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	9	7	15
Sodium	ppm	ASTM D5185m	2	2	4
Potassium	ppm	ASTM D5185m >20	1	0	0

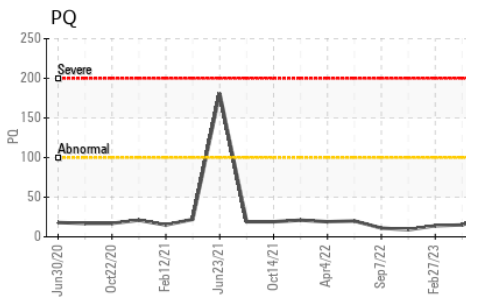
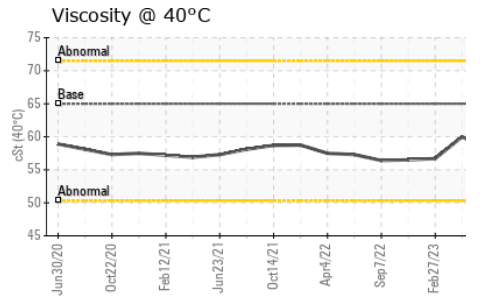
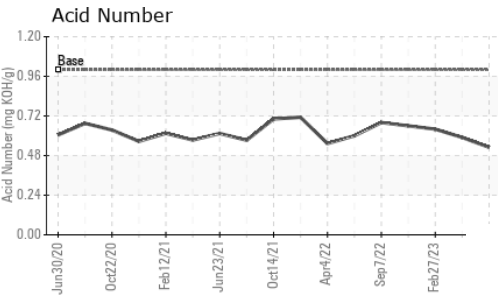
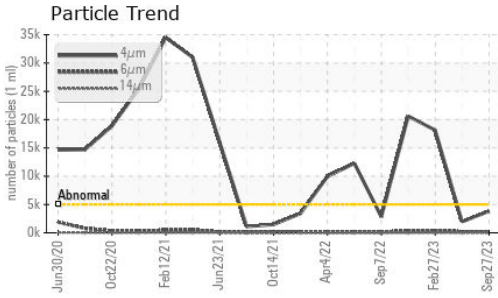
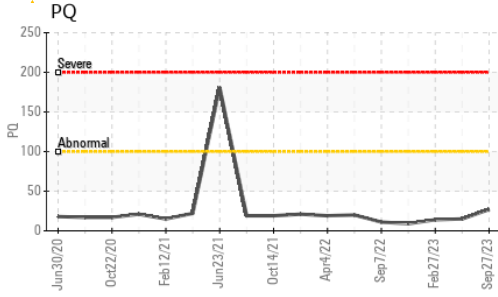
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	3822	1964	▲ 18124
Particles >6µm	ASTM D7647	>1300	181	196	372
Particles >14µm	ASTM D7647	>160	16	8	25
Particles >21µm	ASTM D7647	>40	5	2	6
Particles >38µm	ASTM D7647	>10	1	0	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	19/15/11	18/15/10	▲ 21/16/12

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.53	0.59	0.64

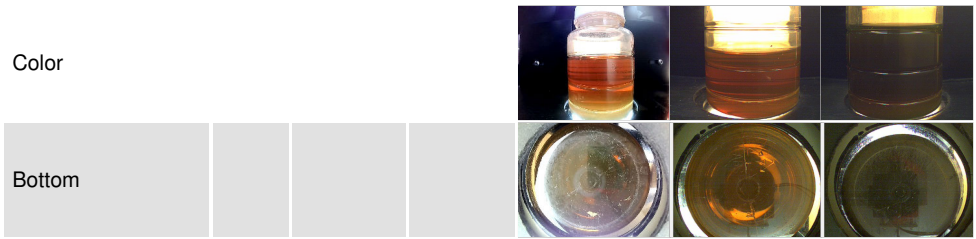
OIL ANALYSIS REPORT



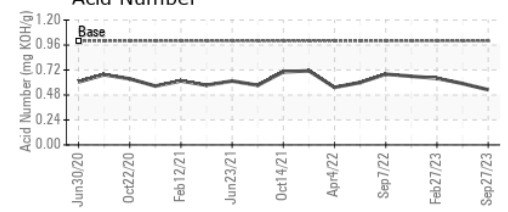
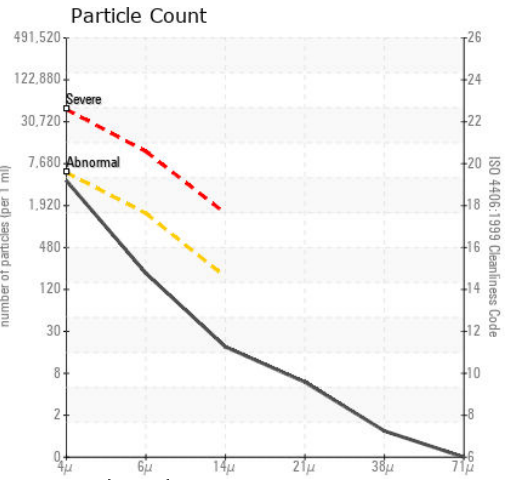
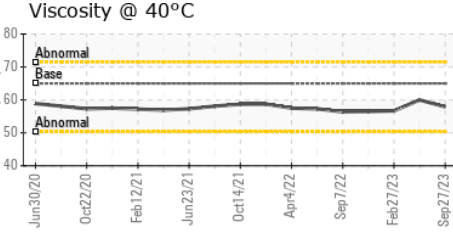
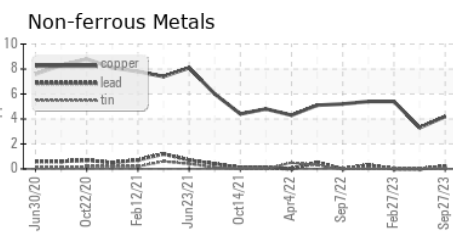
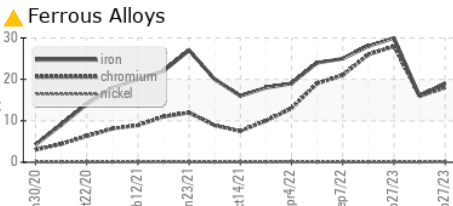
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65	57.9	60.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0179313 **Received** : 02 Oct 2023
Lab Number : 05966173 **Diagnosed** : 03 Oct 2023
Unique Number : 10672724 **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)