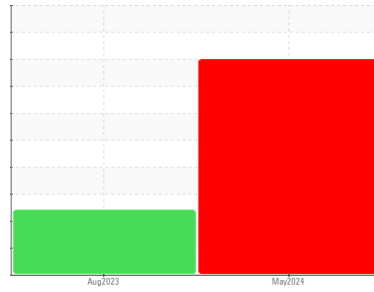


PROBLEM SUMMARY



Area
[16W16336]
 Machine Id
JOHN DEERE 850K 1T0850KXKCE220162
 Component
Right Outer Final Drive
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (4 GAL)

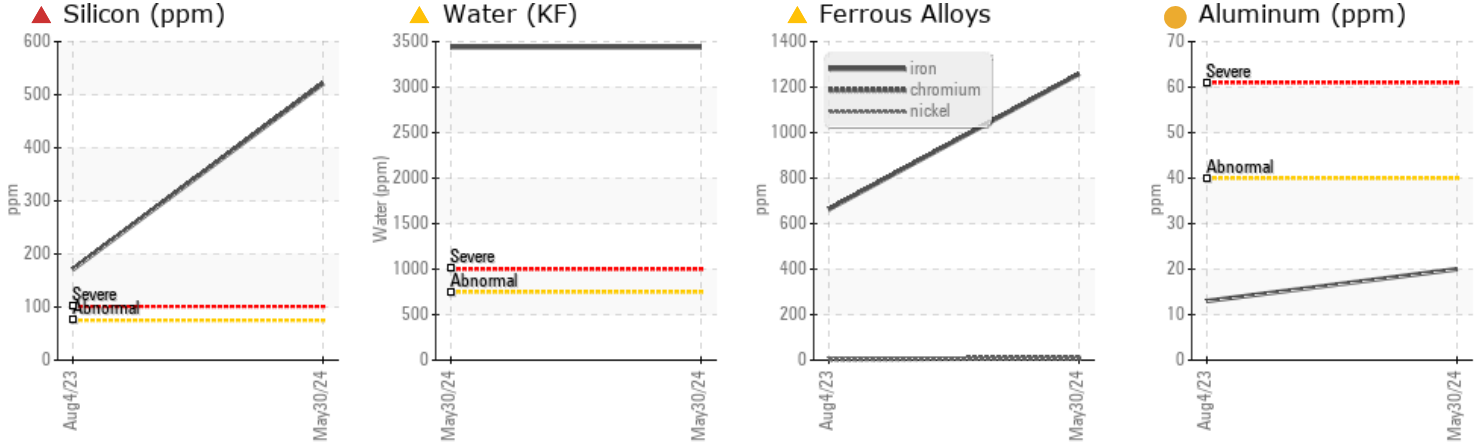
Sample Rating Trend



DIRT



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. 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 recommend an early resample to monitor this condition. (Customer Sample Comment: 16W16336)

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	---
Iron	ppm	ASTM D5185m	>750	▲ 1258	663	---
Silicon	ppm	ASTM D5185m	>75	▲ 521	▲ 171	---
Water	%	ASTM D6304	>0.075	▲ 0.344	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 3440	---	---
Emulsified Water	scalar	*Visual	>0.075	▲ 0.2%	NEG	---

Customer Id: RWMCAS
 Sample No.: JR0207105
 Lab Number: 06197947
 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
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.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

DIRT



04 Aug 2023 Diag: Don Baldrige

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. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

view report

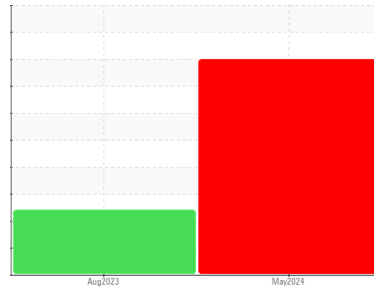


OIL ANALYSIS REPORT



Area
[16W16336]
 Machine Id
JOHN DEERE 850K 1T0850KXKCE220162
 Component
Right Outer Final Drive
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (4 GAL)

Sample Rating Trend



DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. 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 recommend an early resample to monitor this condition. (Customer Sample Comment: 16W16336)

▲ Wear

Gear wear is indicated.

▲ Contamination

There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

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		JR0207105	JR0173505	---
Sample Date	Client Info		30 May 2024	04 Aug 2023	---
Machine Age	hrs	Client Info	8301	7750	---
Oil Age	hrs	Client Info	551	750	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			SEVERE	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184	>1250	1361	397	---
Iron	ppm	ASTM D5185m	>750	1258	663
Chromium	ppm	ASTM D5185m	>9	8	4
Nickel	ppm	ASTM D5185m	>10	8	4
Titanium	ppm	ASTM D5185m		5	1
Silver	ppm	ASTM D5185m		0	<1
Aluminum	ppm	ASTM D5185m	>40	20	13
Lead	ppm	ASTM D5185m	>15	0	<1
Copper	ppm	ASTM D5185m	>40	2	2
Tin	ppm	ASTM D5185m	>10	0	0
Vanadium	ppm	ASTM D5185m		<1	<1
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	0	3
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	2
Manganese	ppm	ASTM D5185m		9	5
Magnesium	ppm	ASTM D5185m	145	83	93
Calcium	ppm	ASTM D5185m	3570	3372	3514
Phosphorus	ppm	ASTM D5185m	1290	1047	1028
Zinc	ppm	ASTM D5185m	1640	1212	1231
Sulfur	ppm	ASTM D5185m		3973	4628

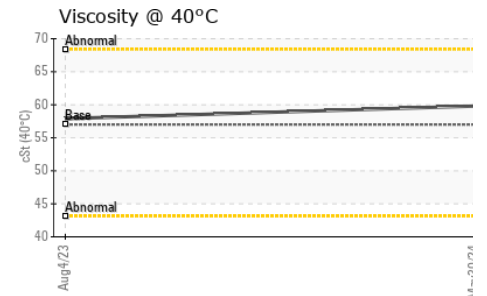
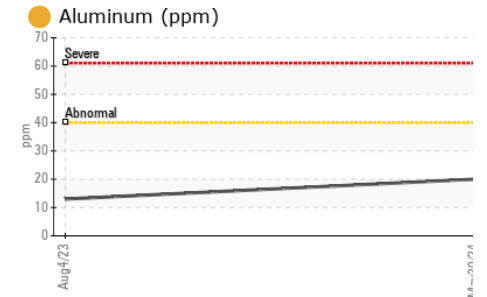
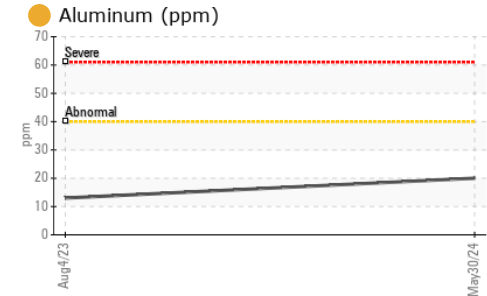
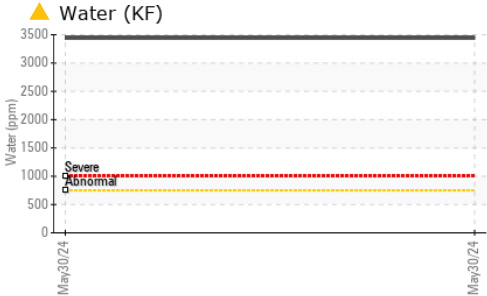
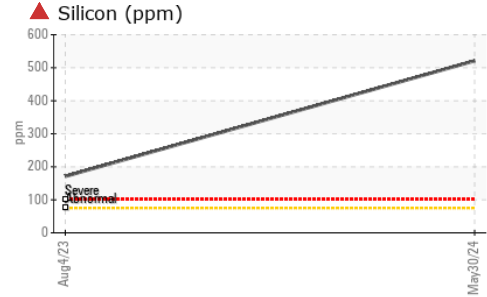
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	521	171
Sodium	ppm	ASTM D5185m	>51	3	2
Potassium	ppm	ASTM D5185m	>20	3	3
Water	%	ASTM D6304	>0.075	0.344	---
ppm Water	ppm	ASTM D6304	>750	3440	---

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	MODER
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	>0.075	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG

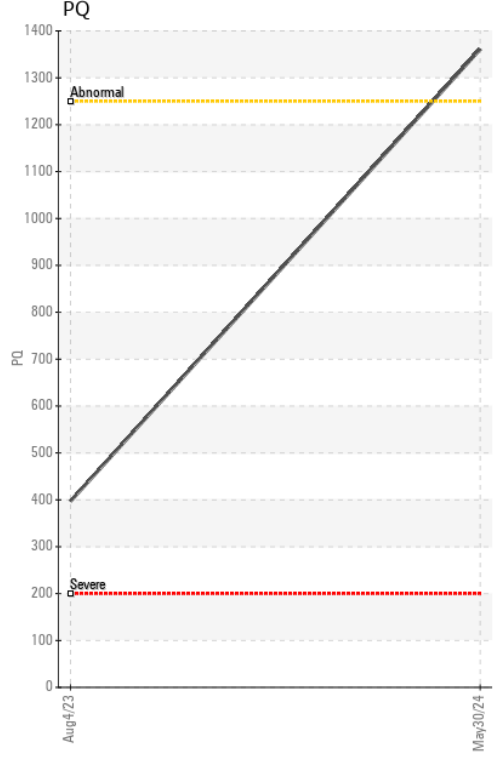
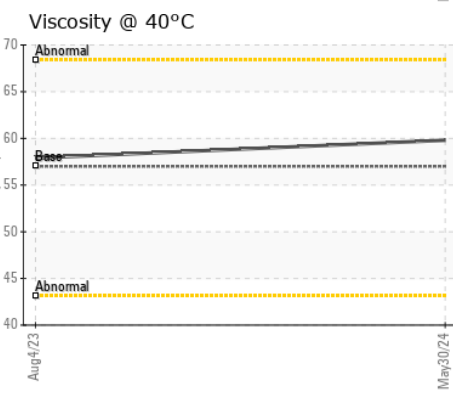
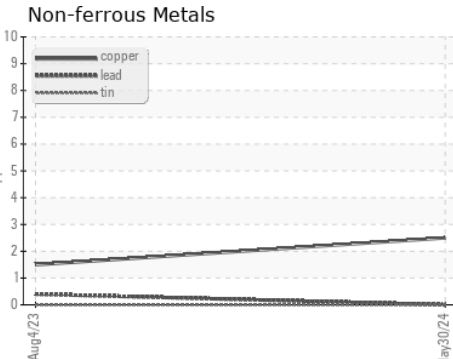
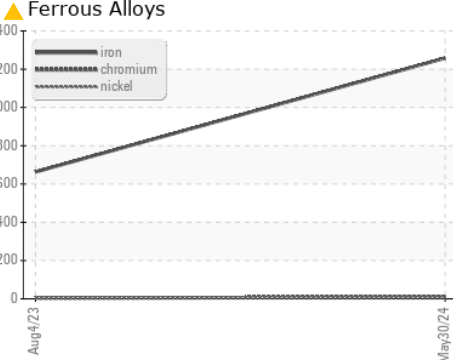
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	57.0	59.8	57.9	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207105 **Received** : 03 Jun 2024
Lab Number : **06197947** **Tested** : 04 Jun 2024
Unique Number : 11060070 **Diagnosed** : 04 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

JRE - CASTLE HAYNE
 113 CROWATAN ROAD
 CASTLE HAYNE, NC
 US 28429-5819
 Contact: WILMINGTON SHOP

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)