

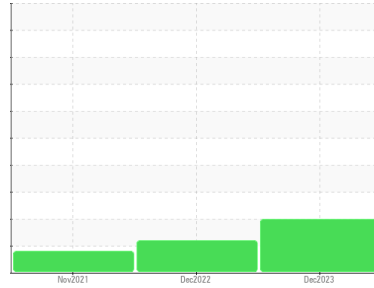
PROBLEM SUMMARY

Sample Rating Trend

ISO

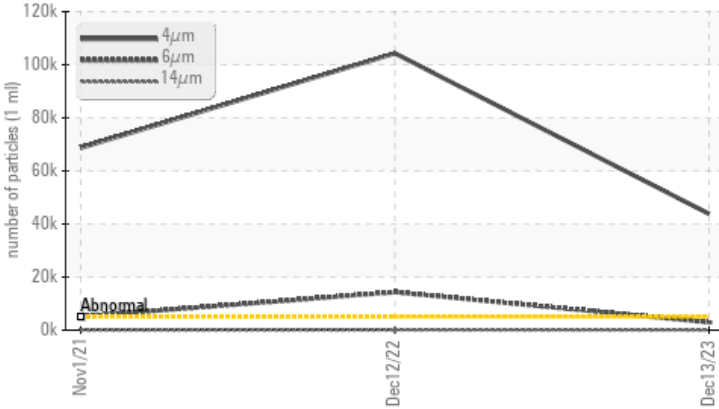


Machine Id
JOHN DEERE 1023E 1LV1023EALK137387
Component
Hydraulic System
Fluid
JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- QTS)



COMPONENT CONDITION SUMMARY

Particle Trend



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>5000	🔴 43825	🟡 104298	🟡 68685
Particles >6µm	ASTM D7647	>1300	🟡 2939	🟡 14323	🟡 5084
Oil Cleanliness	ISO 4406 (c)	>19/17/14	🔴 23/19/11	🟡 24/21/14	🟡 23/20/12

Customer Id: JAMSOU
Sample No.: JR0189708
Lab Number: 06057995
Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

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 Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS

12 Dec 2022 Diag: Angela Borella

ISO



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 high amount of particulates 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



01 Nov 2021 Diag: Don Baldrige

ISO

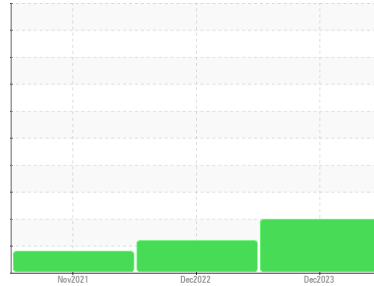


We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Machine Id
JOHN DEERE 1023E 1LV1023EALK137387
 Component
Hydraulic System
 Fluid
JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- QTS)


DIAGNOSIS
Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JR0189708	JR0135432	JR0093392
Sample Date	Client Info		13 Dec 2023	12 Dec 2022	01 Nov 2021
Machine Age	hrs	Client Info	23	49	8
Oil Age	hrs	Client Info	0	49	8
Oil Changed	Client Info		N/A	Changed	Not Chngd
Sample Status			SEVERE	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		16	11	18
Iron	ppm	ASTM D5185m >20	7	19	8
Chromium	ppm	ASTM D5185m >10	<1	0	<1
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	2	2	<1
Lead	ppm	ASTM D5185m >10	<1	2	2
Copper	ppm	ASTM D5185m >75	8	29	18
Tin	ppm	ASTM D5185m >10	<1	1	1
Antimony	ppm	ASTM D5185m	---	---	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	2	5	7
Barium	ppm	ASTM D5185m	<1	0	1
Molybdenum	ppm	ASTM D5185m	<1	0	<1
Manganese	ppm	ASTM D5185m	<1	1	1
Magnesium	ppm	ASTM D5185m	97	95	97
Calcium	ppm	ASTM D5185m	3359	3711	3613
Phosphorus	ppm	ASTM D5185m	1013	1041	1018
Zinc	ppm	ASTM D5185m	1180	1258	1223
Sulfur	ppm	ASTM D5185m	3927	4307	2960

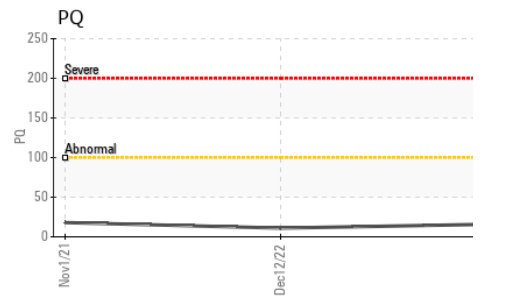
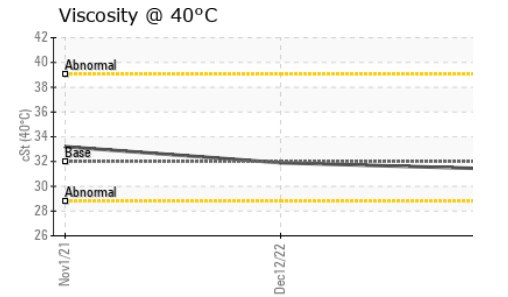
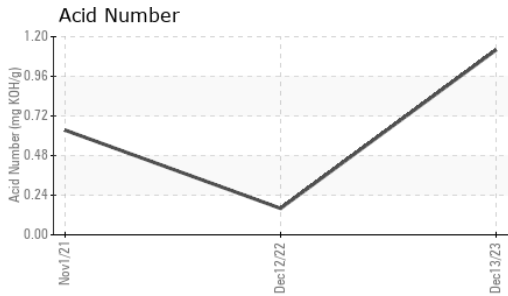
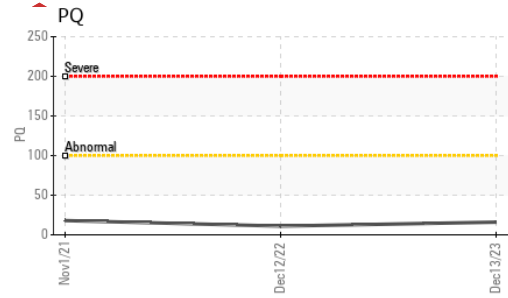
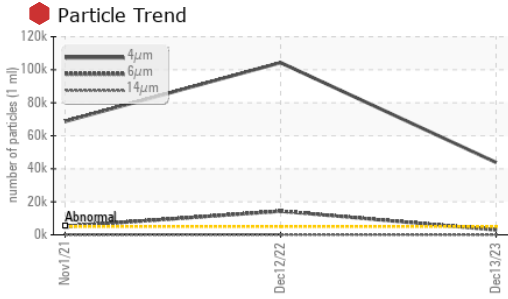
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	10	21	16
Sodium	ppm	ASTM D5185m	0	0	1
Potassium	ppm	ASTM D5185m >20	3	4	3

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	43825	104298	68685
Particles >6µm	ASTM D7647	>1300	2939	14323	5084
Particles >14µm	ASTM D7647	>160	20	96	30
Particles >21µm	ASTM D7647	>40	6	19	4
Particles >38µm	ASTM D7647	>10	0	4	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/19/11	24/21/14	23/20/12

OIL ANALYSIS REPORT

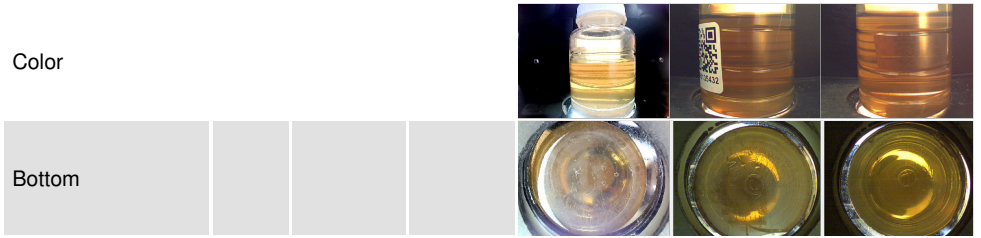


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.12	0.16	0.634

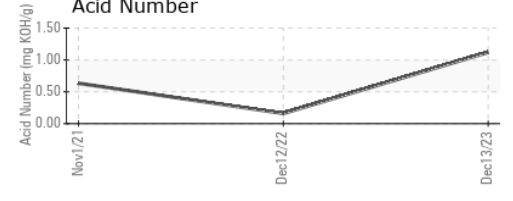
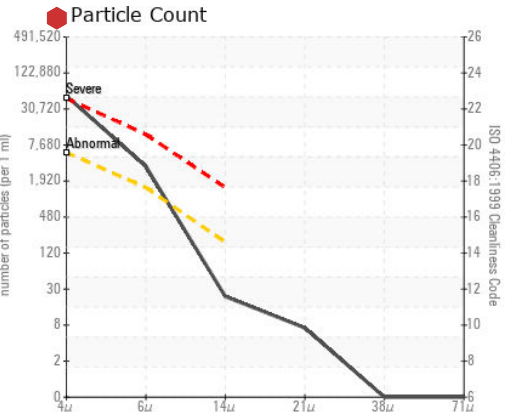
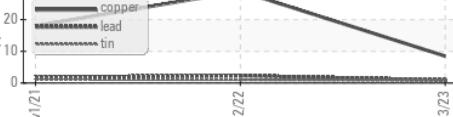
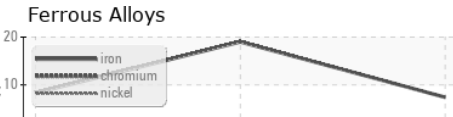
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	31.4	31.9	33.2

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189708 **Received** : 11 Jan 2024
Lab Number : 06057995 **Diagnosed** : 12 Jan 2024
Unique Number : 10829377 **Diagnostician** : Wes Davis
Test Package : CONST (Additional Tests: PQ)

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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)