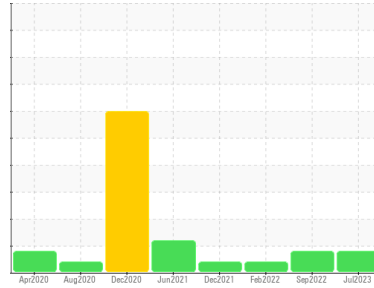
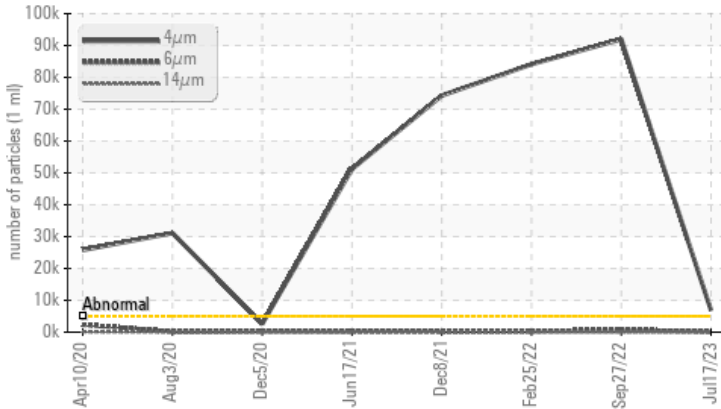


Machine Id
JOHN DEERE 115
Component
Hydraulic System
Fluid
MOBIL MOBILFLUID 424 (--- QTS)


COMPONENT CONDITION SUMMARY
▲ Particle Trend

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647 >5000	▲ 6871	▲ 91953	▲ 84131
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 20/15/12	▲ 24/17/11	▲ 24/15/12

Customer Id: SCOWAV
Sample No.: JR0172470
Lab Number: 05904880
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

27 Sep 2022 Diag: Angela Borella

ISO



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. 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 oils additive package is suitable for further service.

view report



25 Feb 2022 Diag: Don Baldrige

ISO



No corrective action is recommended at this time. 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 oils additive package is suitable for further service.

view report



08 Dec 2021 Diag: Don Baldrige

ISO

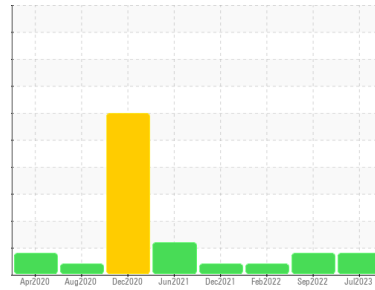


No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oils additive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

view report



Machine Id
JOHN DEERE 115
Component
Hydraulic System
Fluid
MOBIL MOBILFLUID 424 (--- QTS)


DIAGNOSIS
Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present 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			JR0172470	JR0039642	JR0039579
Sample Date	Client Info			17 Jul 2023	27 Sep 2022	25 Feb 2022
Machine Age	hrs	Client Info		6230	5170	4185
Oil Age	hrs	Client Info		1000	4000	4185
Oil Changed	Client Info			Not Changed	Changed	Not Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		8	13	17
Iron	ppm	ASTM D5185m	>20	10	24	25
Chromium	ppm	ASTM D5185m	>10	6	18	18
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>10	2	3	6
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	3	7	7
Tin	ppm	ASTM D5185m	>10	0	0	0
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		95	10	14
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		6	1	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		84	14	26
Calcium	ppm	ASTM D5185m		2833	479	540
Phosphorus	ppm	ASTM D5185m		1074	628	774
Zinc	ppm	ASTM D5185m		1363	860	966
Sulfur	ppm	ASTM D5185m		5664	2768	2196

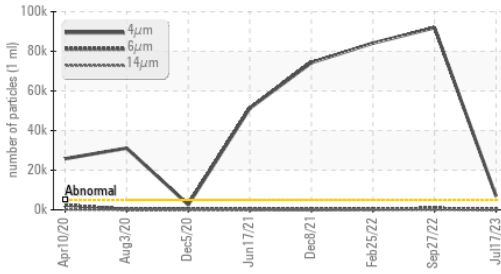
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	10	3	4
Sodium	ppm	ASTM D5185m		0	4	<1
Potassium	ppm	ASTM D5185m	>20	3	5	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 6871	▲ 91953	▲ 84131
Particles >6µm		ASTM D7647	>1300	173	684	312
Particles >14µm		ASTM D7647	>160	25	15	35
Particles >21µm		ASTM D7647	>40	10	5	10
Particles >38µm		ASTM D7647	>10	0	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/15/12	▲ 24/17/11	▲ 24/15/12

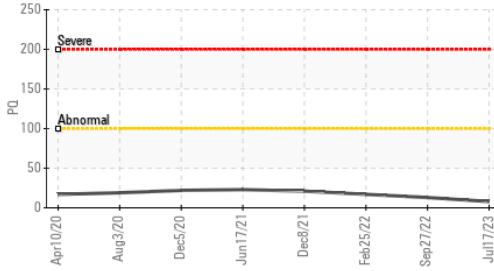
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.89	0.65	0.62

OIL ANALYSIS REPORT

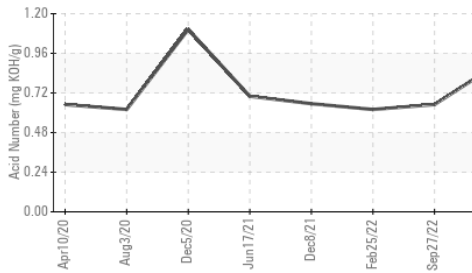
▲ Particle Trend



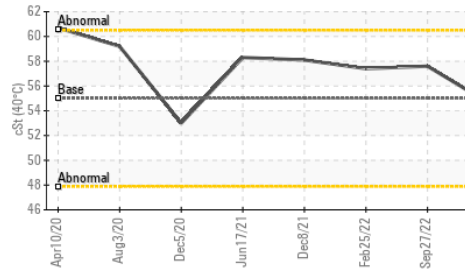
PQ



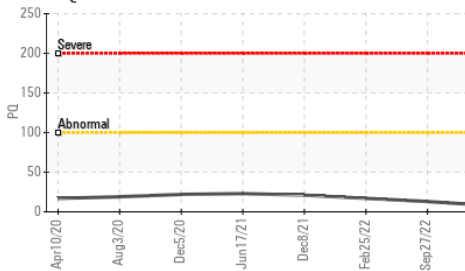
Acid Number



Viscosity @ 40°C



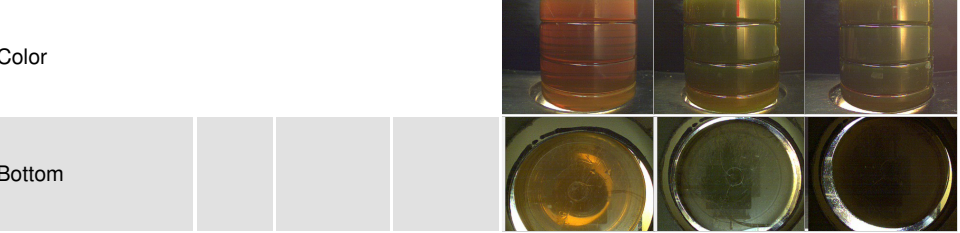
PQ



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	VLITE
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

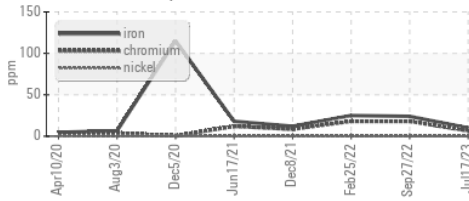
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 55	54.6	57.6	57.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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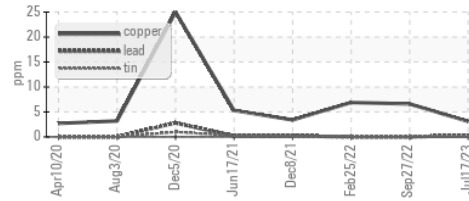


GRAPHS

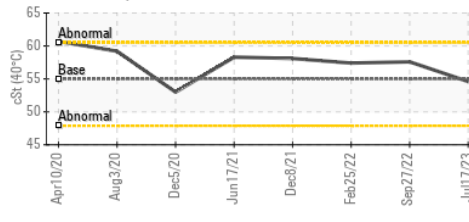
Ferrous Alloys



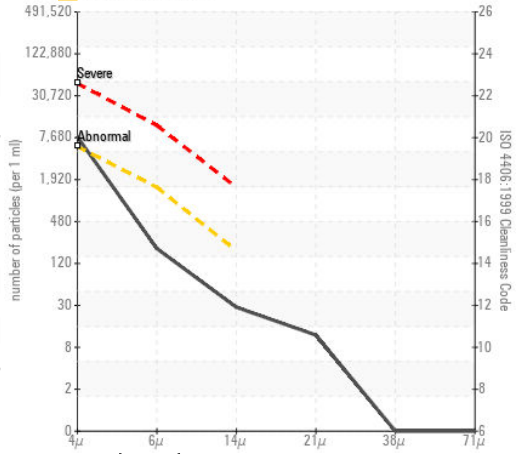
Non-ferrous Metals



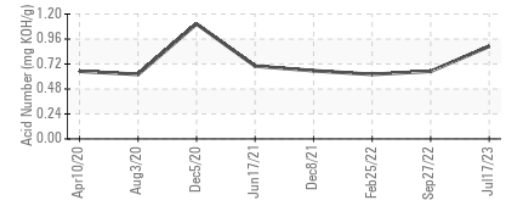
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0172470 **Received** : 21 Jul 2023
Lab Number : 05904880 **Diagnosed** : 24 Jul 2023
Unique Number : 10566236 **Diagnostician** : Wes Davis
Test Package : CONST (Additional Tests: PQ)

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)

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