PROBLEM SUMMARY

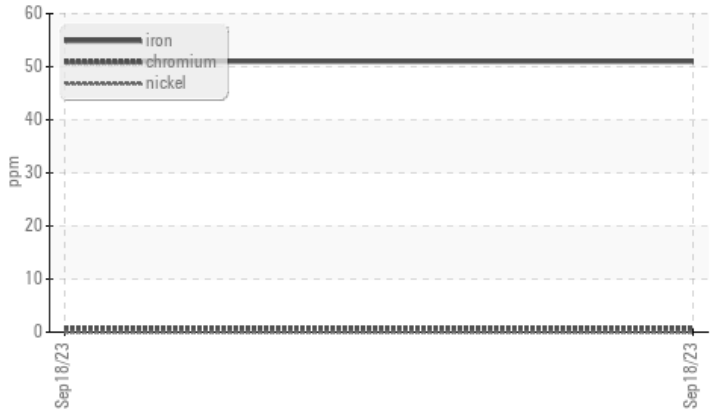
Sample Rating Trend

WEAR

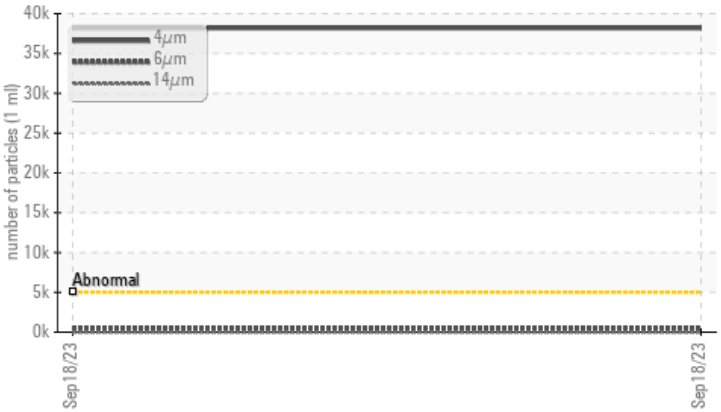
Area
[W19788 CHARAH]
Machine Id
JOHN DEERE 6110M 1L06110MCHG892974
Component
Hydraulic System
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Iron	ppm	ASTM D5185m	>20	▲ **51**	---	---
Particles >4µm		ASTM D7647	>5000	▲ **38185**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/16/10**	---	---

Customer Id: JAMBUR
Sample No.: JR0174997
Lab Number: 05960525
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area
[W19788 CHARAH]
Machine Id
JOHN DEERE 6110M 1L06110MCHG892974
Component
Hydraulic System
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
The iron level is abnormal.

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 condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**JR0174997**	---	---
Sample Date		Client Info		**18 Sep 2023**	---	---
Machine Age	hrs	Client Info		**1956**	---	---
Oil Age	hrs	Client Info		**500**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**18**	---	---
Iron	ppm	ASTM D5185m	>20	▲ **51**	---	---
Chromium	ppm	ASTM D5185m	>10	**<1**	---	---
Nickel	ppm	ASTM D5185m	>10	**0**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m		**<1**	---	---
Aluminum	ppm	ASTM D5185m	>10	**2**	---	---
Lead	ppm	ASTM D5185m	>10	**11**	---	---
Copper	ppm	ASTM D5185m	>75	**62**	---	---
Tin	ppm	ASTM D5185m	>10	**2**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	**14**	---	---
Barium	ppm	ASTM D5185m	0	**0**	---	---
Molybdenum	ppm	ASTM D5185m	0	**2**	---	---
Manganese	ppm	ASTM D5185m		**2**	---	---
Magnesium	ppm	ASTM D5185m	145	**84**	---	---
Calcium	ppm	ASTM D5185m	3570	**3299**	---	---
Phosphorus	ppm	ASTM D5185m	1290	**959**	---	---
Zinc	ppm	ASTM D5185m	1640	**1127**	---	---
Sulfur	ppm	ASTM D5185m		**4336**	---	---

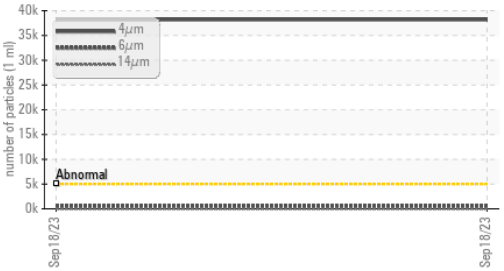
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**7**	---	---
Sodium	ppm	ASTM D5185m		**7**	---	---
Potassium	ppm	ASTM D5185m	>20	**3**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **38185**	---	---
Particles >6µm		ASTM D7647	>1300	**534**	---	---
Particles >14µm		ASTM D7647	>160	**9**	---	---
Particles >21µm		ASTM D7647	>40	**2**	---	---
Particles >38µm		ASTM D7647	>10	**0**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/16/10**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	**1.31**	---	---

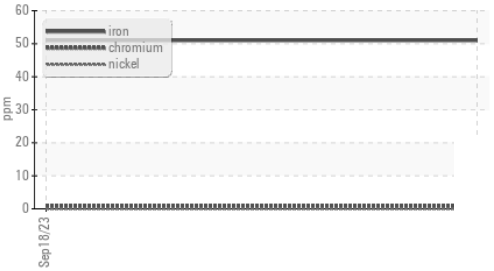
OIL ANALYSIS REPORT

Particle Trend

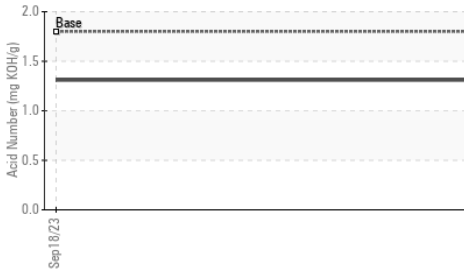


PQ

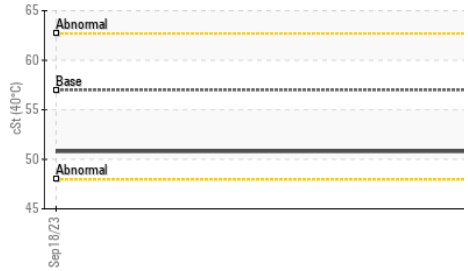
Ferrous Alloys



Acid Number



Viscosity @ 40°C



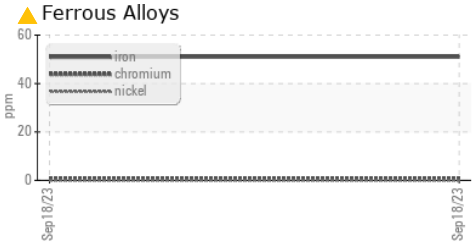
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**LIGHT**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	**50.8**	---	---

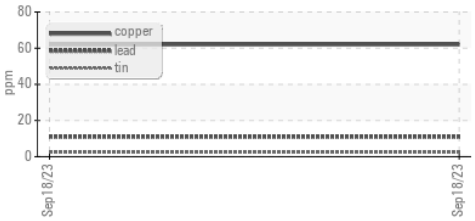
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

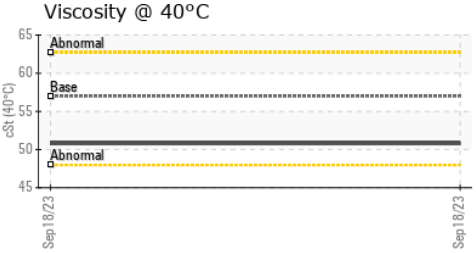
Ferrous Alloys



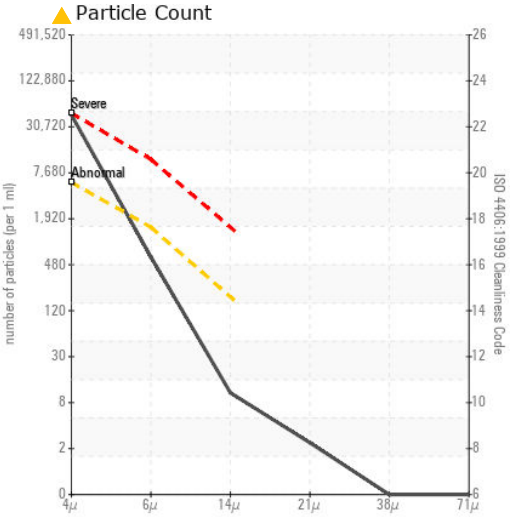
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0174997 **Received** : 25 Sep 2023
Lab Number : 05960525 **Diagnosed** : 27 Sep 2023
Unique Number : 10661738 **Diagnostician** : Don Baldridge
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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