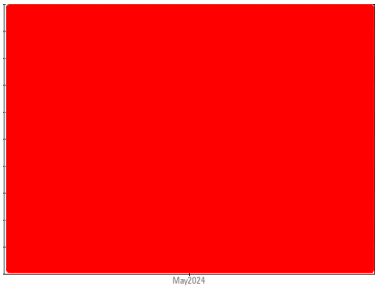
PROBLEM SUMMARY

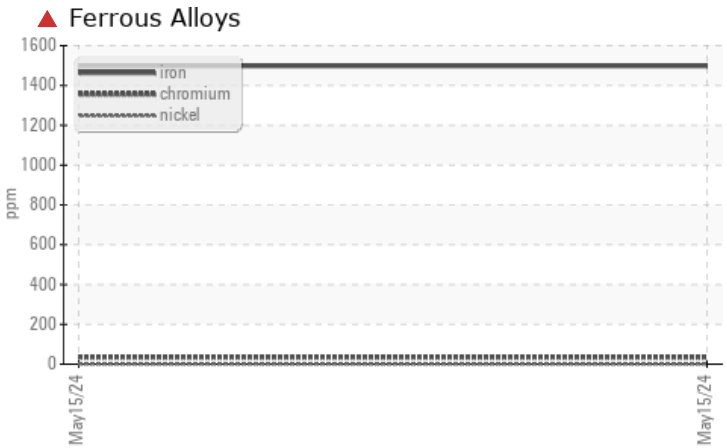
Area
[W51858 SEG 4]
Machine Id
JOHN DEERE 17D 1FF017DXKCK221701
Component
Right Final Drive
Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

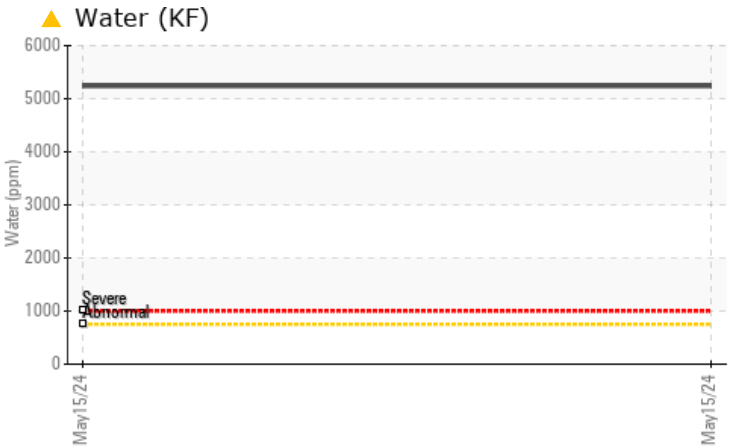
Sample Rating Trend



WEAR

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	---	---
Iron	ppm	ASTM D5185m	>750	▲ **1498**	---	---
Chromium	ppm	ASTM D5185m	>9	▲ **35**	---	---
Water	%	ASTM D6304	>0.075	▲ **0.524**	---	---
ppm Water	ppm	ASTM D6304	>750	▲ **5240**	---	---
Emulsified Water	scalar	*Visual	>0.075	▲ **0.2%**	---	---

Customer Id: JAMASH
Sample No.: JR0211568
Lab Number: 06183157
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

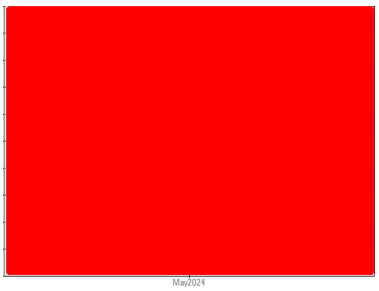
Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

JAMES RIVER EQUIPMENT

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
[W51858 SEG 4]
Machine Id
JOHN DEERE 17D 1FF017DXKCK221701
Component
Right Final Drive
Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

DIAGNOSIS

▲ Recommendation
We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear
Gear wear is indicated.

▲ Contamination
There is a moderate concentration of water present in the oil.

Fluid Condition
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**JR0211568**	---	---
Sample Date		Client Info		**15 May 2024**	---	---
Machine Age	hrs	Client Info		**6464**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**Changed**	---	---
Sample Status				**SEVERE**	---	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>1250	**62**	---	---
Iron	ppm	ASTM D5185m	>750	▲ **1498**	---	---
Chromium	ppm	ASTM D5185m	>9	▲ **35**	---	---
Nickel	ppm	ASTM D5185m	>10	**1**	---	---
Titanium	ppm	ASTM D5185m		**1**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>40	**6**	---	---
Lead	ppm	ASTM D5185m	>15	**0**	---	---
Copper	ppm	ASTM D5185m	>40	**4**	---	---
Tin	ppm	ASTM D5185m	>10	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

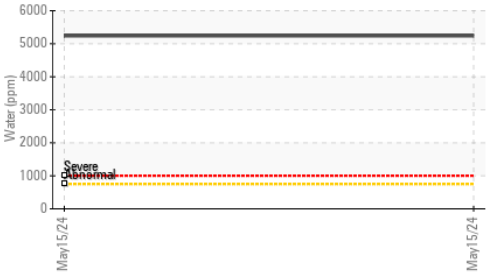
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**40**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**4**	---	---
Manganese	ppm	ASTM D5185m		**13**	---	---
Magnesium	ppm	ASTM D5185m		**0**	---	---
Calcium	ppm	ASTM D5185m		**<1**	---	---
Phosphorus	ppm	ASTM D5185m		**1052**	---	---
Zinc	ppm	ASTM D5185m		**104**	---	---
Sulfur	ppm	ASTM D5185m		**22769**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**57**	---	---
Sodium	ppm	ASTM D5185m	>51	**4**	---	---
Potassium	ppm	ASTM D5185m	>20	**1**	---	---
Water	%	ASTM D6304	>0.075	▲ **0.524**	---	---
ppm Water	ppm	ASTM D6304	>750	▲ **5240**	---	---

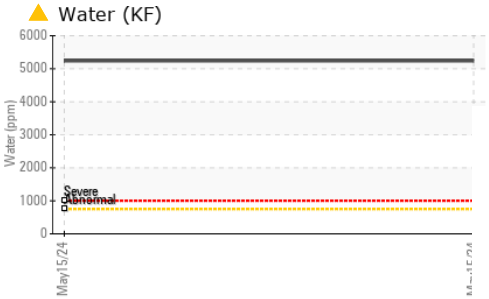
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.075	▲ **0.2%**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

OIL ANALYSIS REPORT

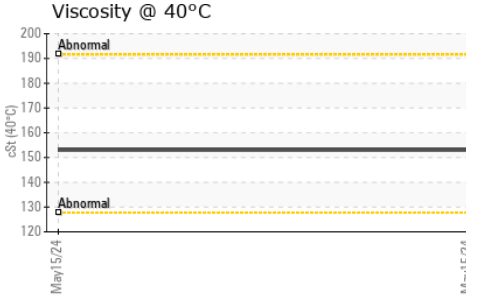
Water (KF)



Water (KF)



Viscosity @ 40°C



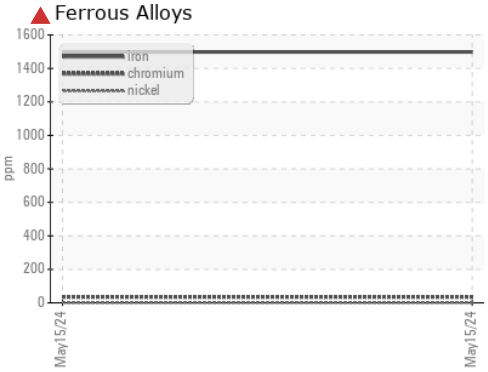
PQ

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**153**	---	---

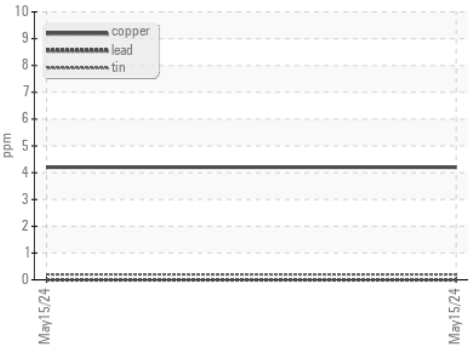
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

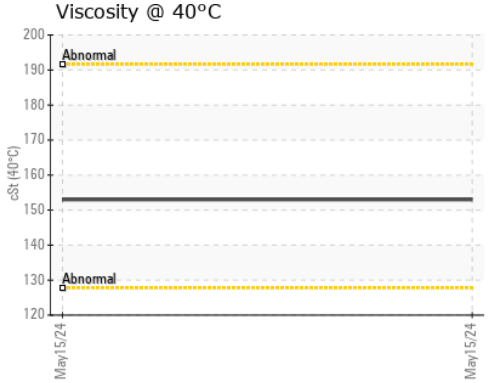
Ferrous Alloys



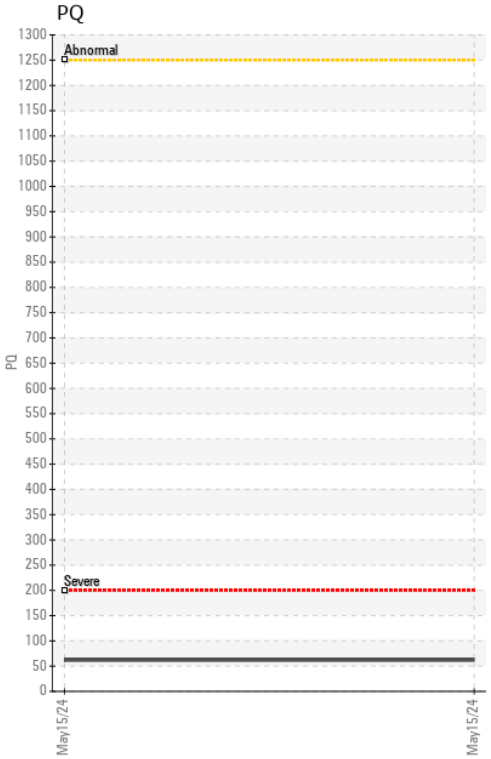
Non-ferrous Metals



Viscosity @ 40°C



PQ



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211568
Lab Number : 06183157
Unique Number : 11034483
Test Package : CONST (Additional Tests: KF, PQ)

Received : 17 May 2024
Tested : 20 May 2024
Diagnosed : 21 May 2024 - Sean Felton

Certificate L2367

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US 23005
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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)