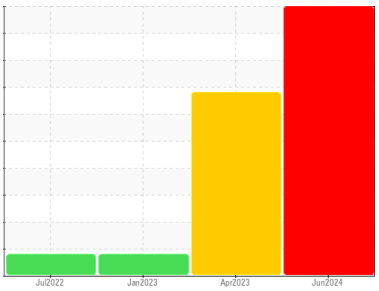
PROBLEM SUMMARY

Sample Rating Trend



WEAR

Area

[W52279]

Machine Id

JOHN DEERE 333G 1T0333GMCMF402595

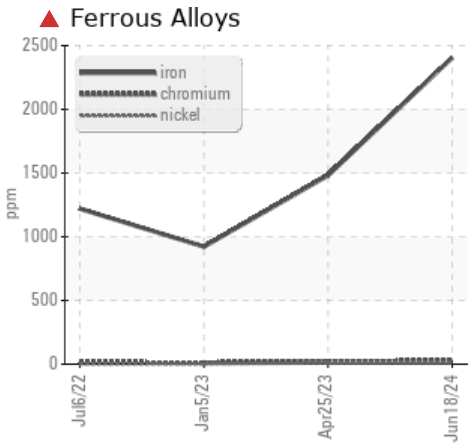
Component

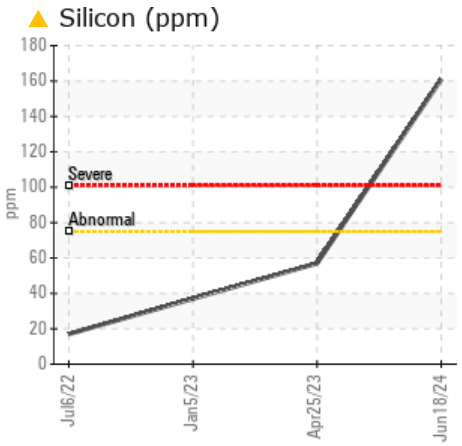
Left Final Drive

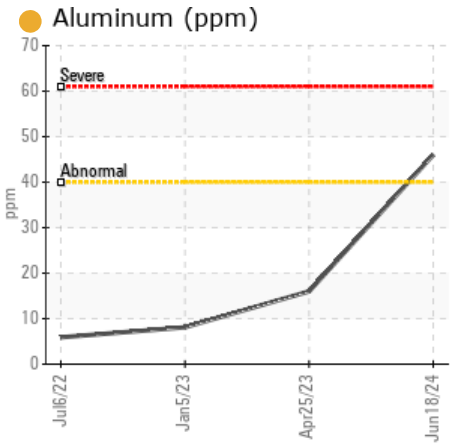
Fluid

JOHN DEERE GL-5 80W90 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

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 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	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>750	▲ **2406**	▲ 1482	▲ 922
Chromium	ppm	ASTM D5185m	>9	▲ **27**	▲ 20	11
Silicon	ppm	ASTM D5185m	>75	▲ **161**	57	37

Customer Id: JAMASH
Sample No.: JR0211766
Lab Number: 06214963
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 Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

WEAR

25 Apr 2023 Diag: Don Baldridge
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.Gear wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report

WEAR

05 Jan 2023 Diag: Don Baldridge
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

WEAR

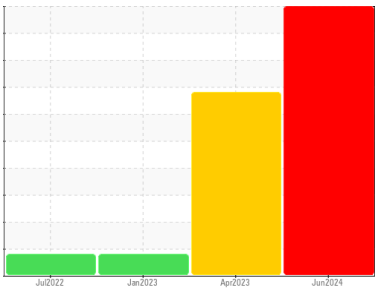
06 Jul 2022 Diag: Don Baldridge
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.Gear wear is indicated. All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

JAMES RIVER EQUIPMENT

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
[W52279]
Machine Id
JOHN DEERE 333G 1T0333GMCMF402595
Component
Left Final Drive
Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

DIAGNOSIS

▲ Recommendation
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 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
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

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		**JR0211766**	JR0165831	JR0147053
Sample Date		Client Info		**18 Jun 2024**	25 Apr 2023	05 Jan 2023
Machine Age	hrs	Client Info		**2247**	1477	989
Oil Age	hrs	Client Info		**747**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**SEVERE**	SEVERE	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.075	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>1250	**119**	92	157
Iron	ppm	ASTM D5185m	>750	▲ **2406**	▲ 1482	▲ 922
Chromium	ppm	ASTM D5185m	>9	▲ **27**	▲ 20	11
Nickel	ppm	ASTM D5185m	>10	**9**	7	2
Titanium	ppm	ASTM D5185m		**4**	1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>40	● **46**	16	8
Lead	ppm	ASTM D5185m	>15	**0**	0	0
Copper	ppm	ASTM D5185m	>40	**3**	2	2
Tin	ppm	ASTM D5185m	>10	**0**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**17**	26	46
Barium	ppm	ASTM D5185m		**6**	20	38
Molybdenum	ppm	ASTM D5185m		**3**	2	2
Manganese	ppm	ASTM D5185m		**17**	13	9
Magnesium	ppm	ASTM D5185m		**5**	7	6
Calcium	ppm	ASTM D5185m		**20**	19	27
Phosphorus	ppm	ASTM D5185m		**312**	503	413
Zinc	ppm	ASTM D5185m		**14**	25	32
Sulfur	ppm	ASTM D5185m		**20681**	23777	17090

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **161**	57	37
Sodium	ppm	ASTM D5185m	>51	**6**	5	3
Potassium	ppm	ASTM D5185m	>20	**15**	16	20

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	MODER	MODER
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	>0.075	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

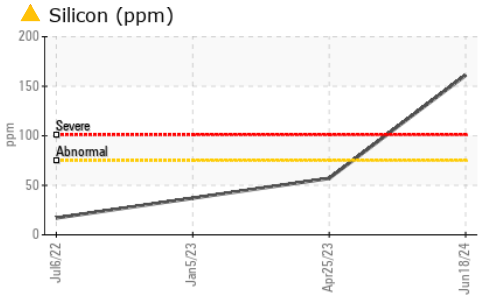
OIL ANALYSIS REPORT

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**142**	140	133

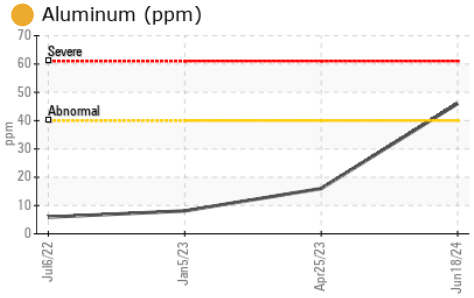
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

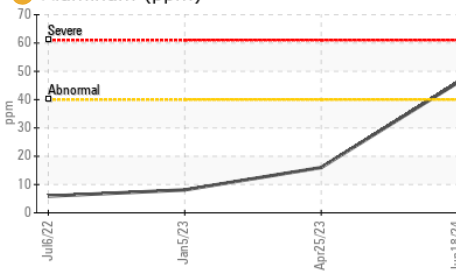
Silicon (ppm)



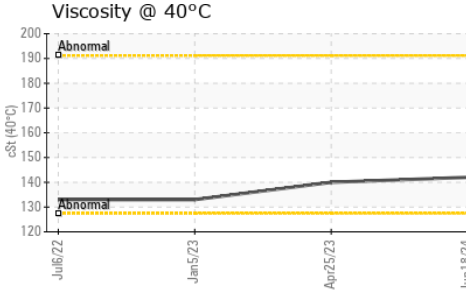
Aluminum (ppm)



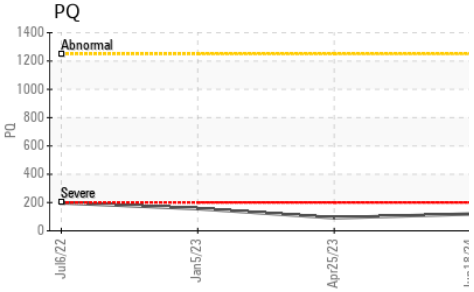
Aluminum (ppm)



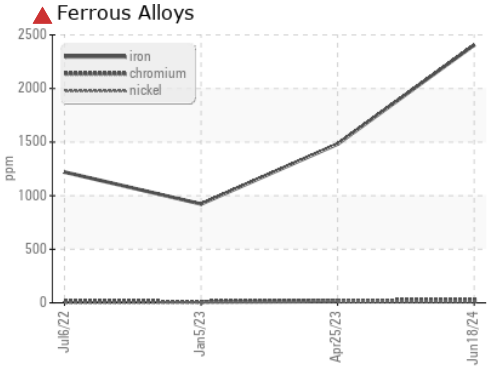
Viscosity @ 40°C



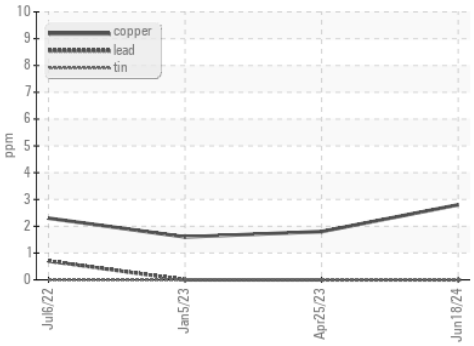
PQ



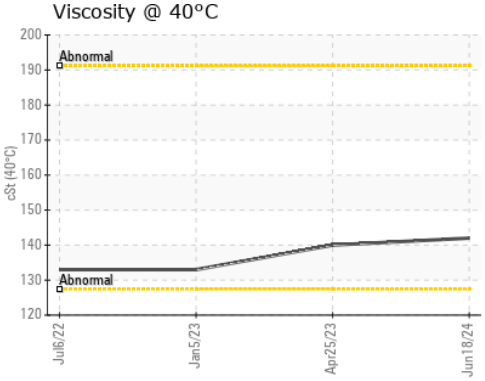
Ferrous Alloys



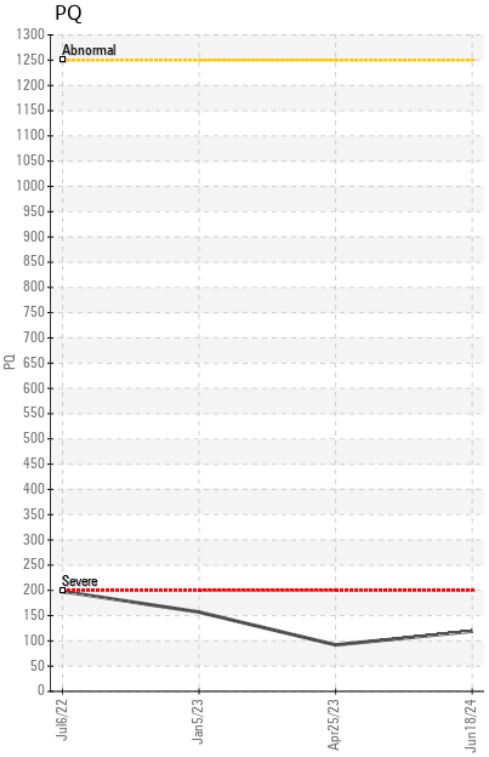
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211766 **Received** : 19 Jun 2024
Lab Number : 06214963 **Tested** : 20 Jun 2024
Unique Number : 11087827 **Diagnosed** : 21 Jun 2024 - Sean Felton
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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