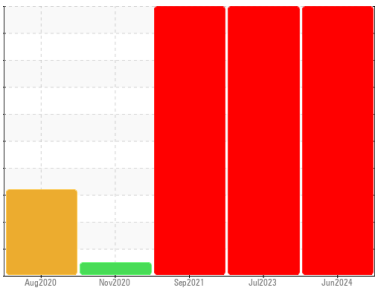
PROBLEM SUMMARY

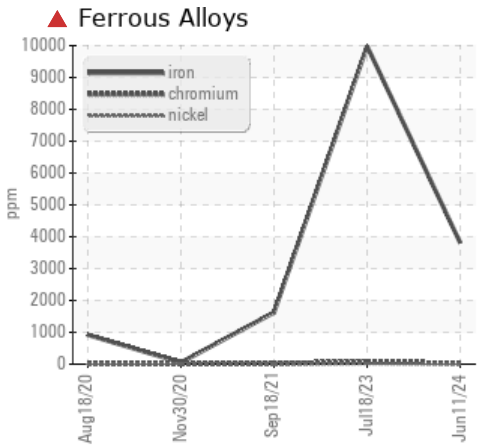
Sample Rating Trend

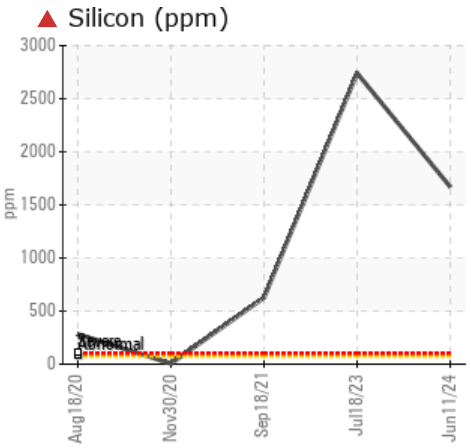


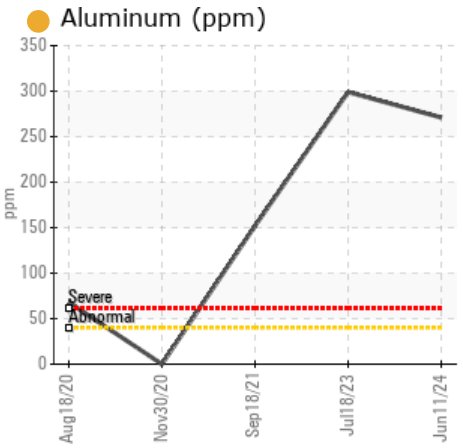
WEAR

Machine Id
JOHN DEERE 250G 1FF250GXJJF610863
Component
Right Final Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>750	▲ **3810**	▲ 9981	▲ 1624
Chromium	ppm	ASTM D5185m	>9	▲ **23**	▲ 87	▲ 16
Silicon	ppm	ASTM D5185m	>75	▲ **1670**	▲ 2741	▲ 627

Customer Id: JAMCHA
Sample No.: JR0219325
Lab Number: 06208972
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

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
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

18 Jul 2023 Diag: Don Baldridge
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

view report

WEAR

18 Sep 2021 Diag: Don Baldridge
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.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

view report

NORMAL

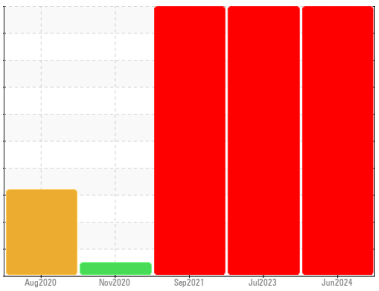
30 Nov 2020 Diag: Don Baldridge
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

view report

JAMES RIVER EQUIPMENT

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
JOHN DEERE 250G 1FF250GXJJF610863
Component
Right Final Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

▲ Recommendation
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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 due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**JR0219325**	JR0141039	JR0096238
Sample Date		Client Info		**11 Jun 2024**	18 Jul 2023	18 Sep 2021
Machine Age	hrs	Client Info		**5021**	4502	2212
Oil Age	hrs	Client Info		**2731**	2290	500
Oil Changed		Client Info		**Not Changd**	N/A	Changed
Sample Status				**SEVERE**	SEVERE	SEVERE

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

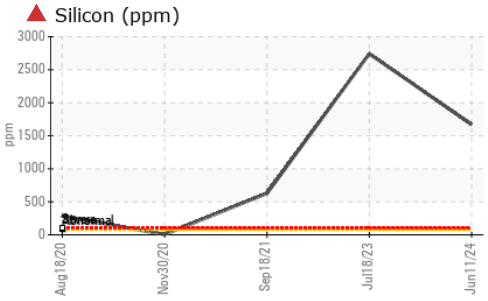
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>1250	**1061**	4201	1083
Iron	ppm	ASTM D5185m	>750	▲ **3810**	▲ 9981	▲ 1624
Chromium	ppm	ASTM D5185m	>9	▲ **23**	▲ 87	▲ 16
Nickel	ppm	ASTM D5185m	>10	**4**	▲ 19	1
Titanium	ppm	ASTM D5185m		**17**	44	12
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>40	● **271**	● 299	● 152
Lead	ppm	ASTM D5185m	>15	**0**	2	0
Copper	ppm	ASTM D5185m	>40	**7**	25	4
Tin	ppm	ASTM D5185m	>10	**0**	1	<1
Antimony	ppm	ASTM D5185m	>5	**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	2	<1
Cadmium	ppm	ASTM D5185m		**0**	1	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	**4**	32	57
Barium	ppm	ASTM D5185m	200	**0**	0	0
Molybdenum	ppm	ASTM D5185m	12	**<1**	9	<1
Manganese	ppm	ASTM D5185m		**25**	78	17
Magnesium	ppm	ASTM D5185m	12	**34**	21	12
Calcium	ppm	ASTM D5185m	150	**614**	30	27
Phosphorus	ppm	ASTM D5185m	1650	**473**	367	359
Zinc	ppm	ASTM D5185m	125	**256**	17	22
Sulfur	ppm	ASTM D5185m	22500	**17244**	26995	18071

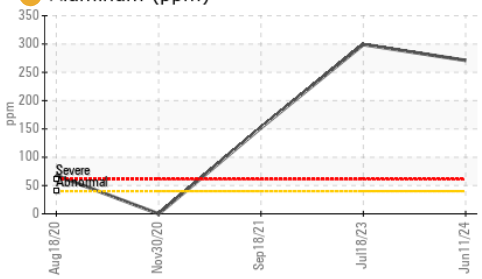
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **1670**	▲ 2741	▲ 627
Sodium	ppm	ASTM D5185m	>170	**47**	18	6
Potassium	ppm	ASTM D5185m	>20	**59**	44	21

OIL ANALYSIS REPORT

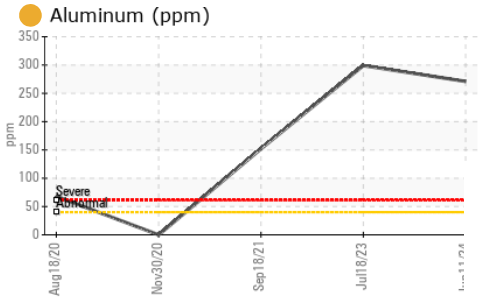
Silicon (ppm)



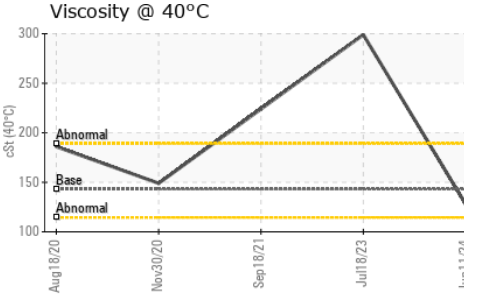
Aluminum (ppm)



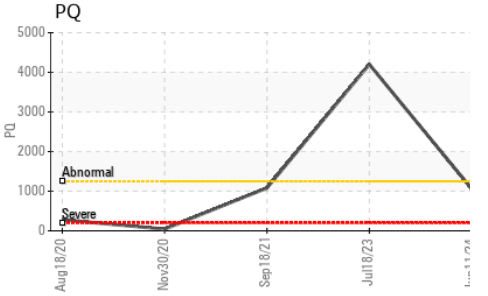
Aluminum (ppm)



Viscosity @ 40°C



PQ



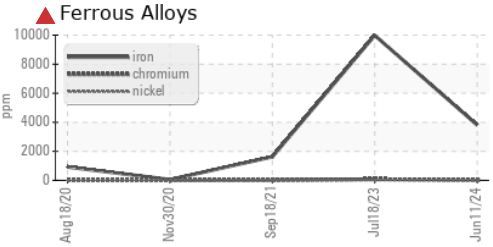
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	**128**	299	224

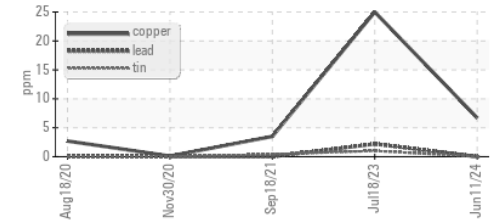
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

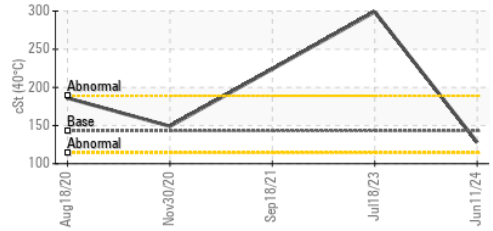
Ferrous Alloys



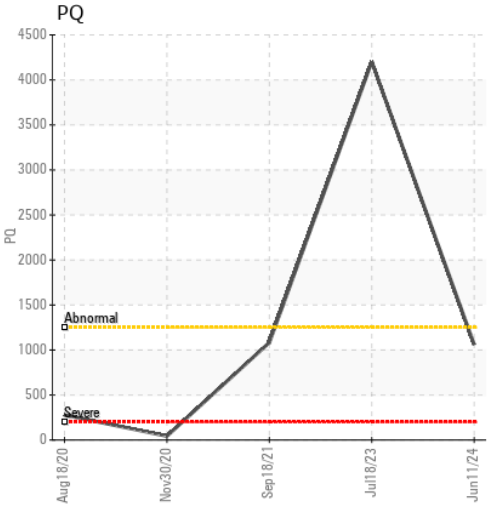
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0219325
Lab Number : 06208972
Unique Number : 11076433
Test Package : CONST (Additional Tests: PQ)

Received : 13 Jun 2024
Tested : 14 Jun 2024
Diagnosed : 15 Jun 2024 - Don Baldridge

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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