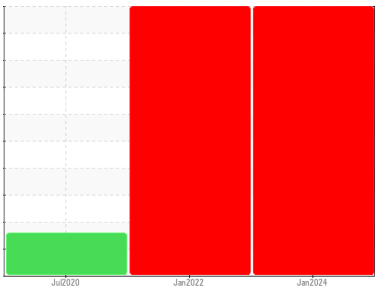
PROBLEM SUMMARY

Sample Rating Trend

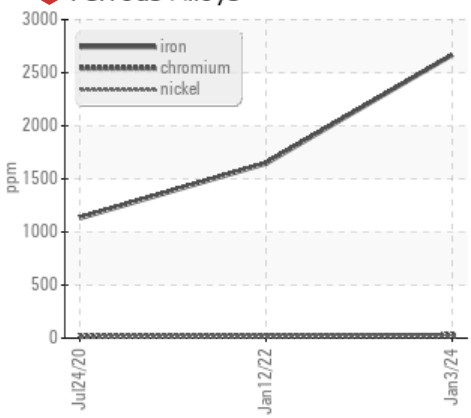


WEAR

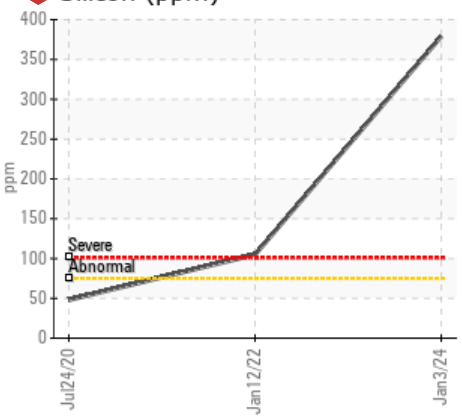
Area
[LARRY ROYSTON]
Machine Id
JOHN DEERE 325G 1T0325GMVKJ355280
Component
Left Final Drive
Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

COMPONENT CONDITION SUMMARY

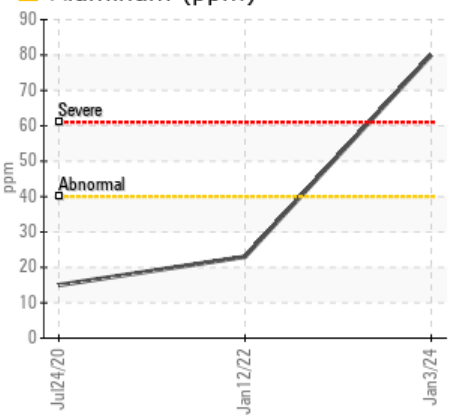
Ferrous Alloys



Silicon (ppm)



Aluminum (ppm)



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	**2668**	1645	1130
Chromium	ppm	ASTM D5185m	>9	**29**	22	16
Nickel	ppm	ASTM D5185m	>10	**15**	14	6
Silicon	ppm	ASTM D5185m	>75	**379**	105	48

Customer Id: JAMWIN
Sample No.: JR0195642
Lab Number: 06056061
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
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

12 Jan 2022 Diag: Don Baldridge

WEAR

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

24 Jul 2020 Diag: Doug Bogart

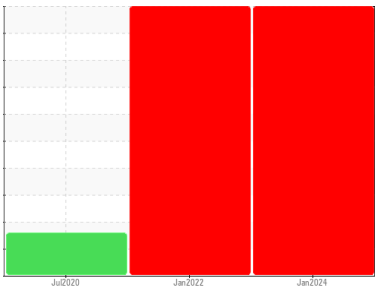
WEAR

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
[LARRY ROYSTON]
Machine Id
JOHN DEERE 325G 1T0325GMVKJ355280
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 due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**JR0195642**	JR0112198	JR0052246
Sample Date		Client Info		**03 Jan 2024**	12 Jan 2022	24 Jul 2020
Machine Age	hrs	Client Info		**1508**	801	255
Oil Age	hrs	Client Info		**0**	0	255
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

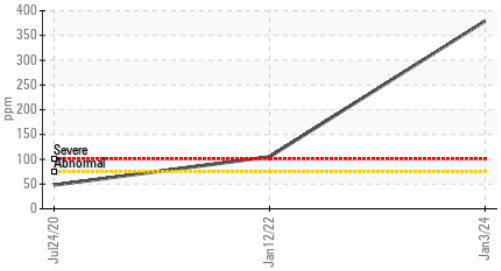
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>1250	**447**	89	196
Iron	ppm	ASTM D5185m	>750	**2668**	1645	1130
Chromium	ppm	ASTM D5185m	>9	**29**	22	16
Nickel	ppm	ASTM D5185m	>10	**15**	14	6
Titanium	ppm	ASTM D5185m		**9**	2	1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>40	**80**	23	15
Lead	ppm	ASTM D5185m	>15	**0**	<1	<1
Copper	ppm	ASTM D5185m	>40	**3**	4	2
Tin	ppm	ASTM D5185m	>10	**0**	0	0
Antimony	ppm	ASTM D5185m	>5	**---**	0	<1
Vanadium	ppm	ASTM D5185m		**1**	1	<1
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**26**	50	52
Barium	ppm	ASTM D5185m		**7**	24	71
Molybdenum	ppm	ASTM D5185m		**3**	3	0
Manganese	ppm	ASTM D5185m		**21**	13	14
Magnesium	ppm	ASTM D5185m		**15**	7	8
Calcium	ppm	ASTM D5185m		**31**	69	40
Phosphorus	ppm	ASTM D5185m		**267**	352	755
Zinc	ppm	ASTM D5185m		**2**	26	33
Sulfur	ppm	ASTM D5185m		**16922**	16200	20402

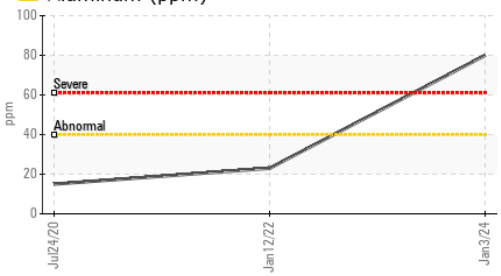
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**379**	105	48
Sodium	ppm	ASTM D5185m	>51	**7**	0	11
Potassium	ppm	ASTM D5185m	>20	**37**	26	31

OIL ANALYSIS REPORT

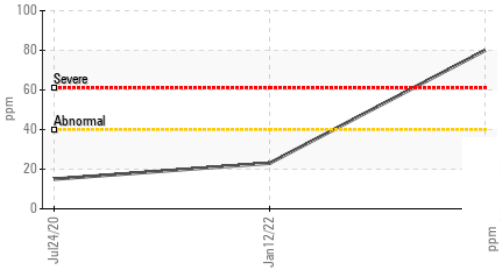
Silicon (ppm)



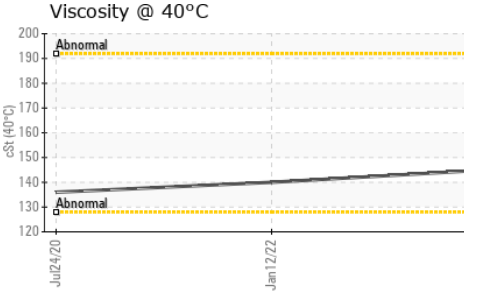
Aluminum (ppm)



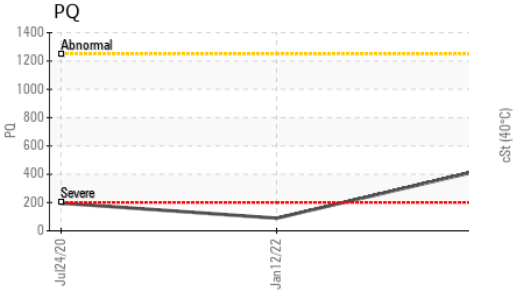
Aluminum (ppm)



Viscosity @ 40°C



PQ



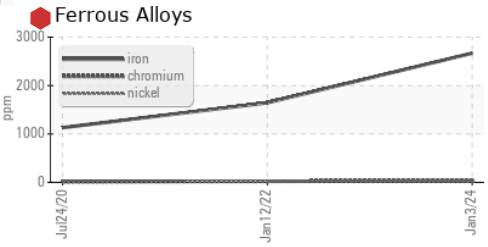
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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		**145**	140	136

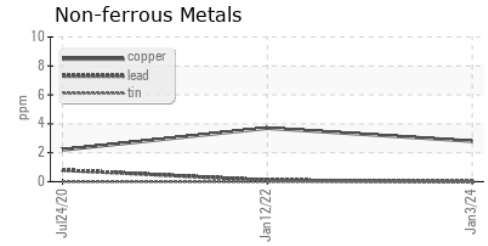
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

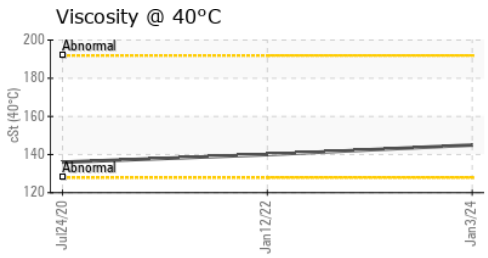
Ferrous Alloys



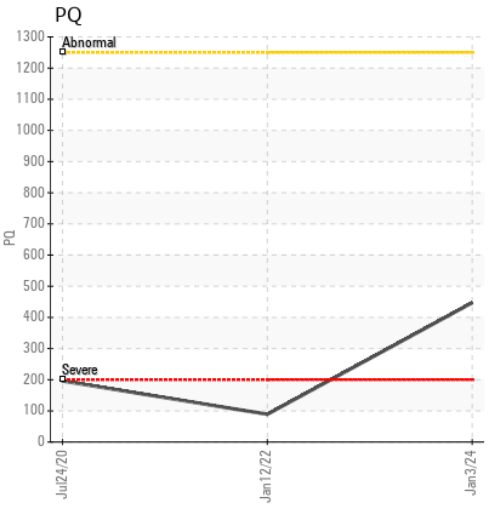
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195642 **Recieved** : 09 Jan 2024
Lab Number : 06056061 **Diagnosed** : 10 Jan 2024
Unique Number : 10822010 **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)

JRE - STEPHENSON
245 YARDMASTER COURT
STEPHENSON, VA
US 22656-1761
Contact: PHIL DAUGHERTY
pdaugherty@jamesriverequipment.com
T: x:
F: (540)693-2588