CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 350G 1FF350GXAKF814265
Component
Right Final Drive
Fluid
JOHN DEERE GL-5 80W90 (10 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. 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. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

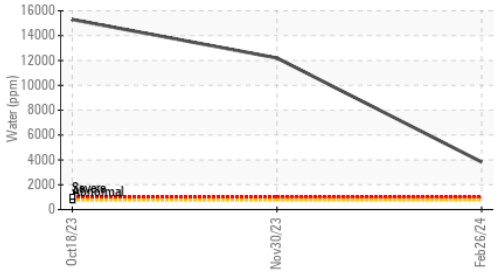
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0201221	JR0193632	JR0189507
Sample Date		Client Info		26 Feb 2024	30 Nov 2023	18 Oct 2023
Machine Age	hrs	Client Info		6524	6125	5687
Oil Age	hrs	Client Info		399	2000	510
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	>1250	362	591	215
Iron	ppm	ASTM D5185m	>750	687	▲ 1297	752
Chromium	ppm	ASTM D5185m	>9	5	12	6
Nickel	ppm	ASTM D5185m	>10	2	4	2
Titanium	ppm	ASTM D5185m		5	12	8
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>40	● 11	● 24	● 16
Lead	ppm	ASTM D5185m	>15	0	1	0
Copper	ppm	ASTM D5185m	>40	<1	<1	2
Tin	ppm	ASTM D5185m	>10	<1	2	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 153	▲ 287	▲ 177
Potassium	ppm	ASTM D5185m	>20	4	11	7
Water	%	ASTM D6304	>0.075	▲ 0.383	▲ 1.22	▲ 1.53
ppm Water	ppm	ASTM D6304	>750	▲ 3830	▲ 12200	▲ 15300
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	● MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	▲ 0.2%	▲ 0.2%	▲ 0.2%
Sodium	ppm	ASTM D5185m	>51	12	19	14
Boron	ppm	ASTM D5185m		30	24	15
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		6	11	6
Magnesium	ppm	ASTM D5185m		11	29	0
Calcium	ppm	ASTM D5185m		544	1009	598
Phosphorus	ppm	ASTM D5185m		1758	771	547
Zinc	ppm	ASTM D5185m		21	4	0
Sulfur	ppm	ASTM D5185m		23546	22443	19690
Visc @ 40°C	cSt	ASTM D445		153	147	144

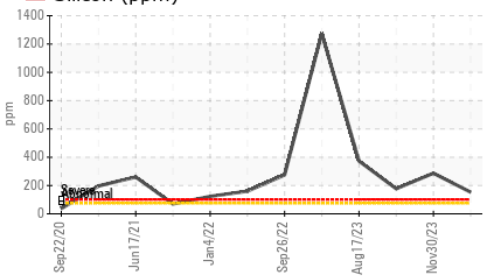
Report Id: RWMNEW [WUSCAR] 06103241 (Generated: 03/01/2024 14:56:54) Rev: 1

Submitted By: Dylan Sanderson

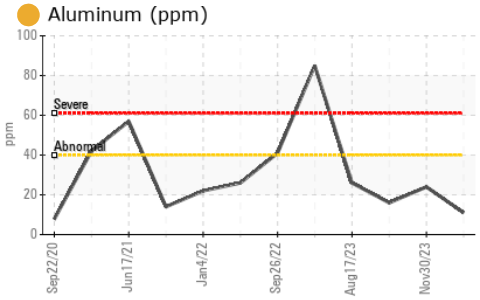
Water (KF)



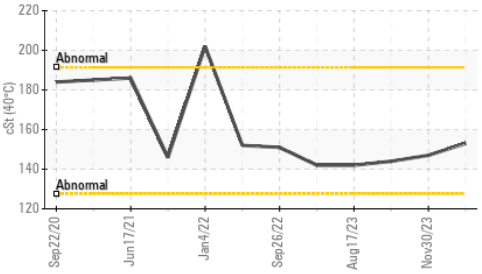
Silicon (ppm)



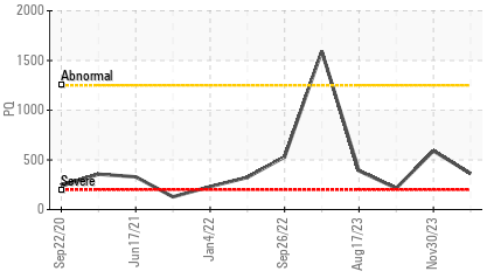
Aluminum (ppm)



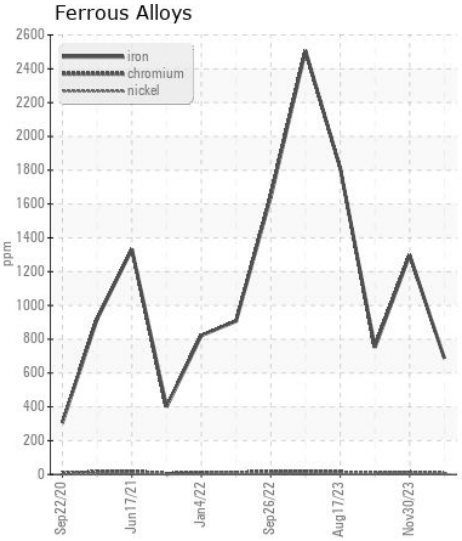
Viscosity @ 40°C



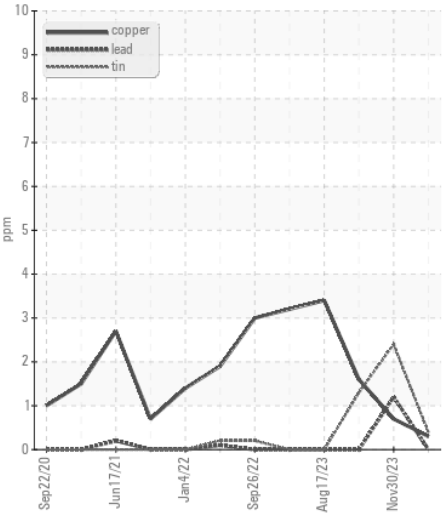
PQ



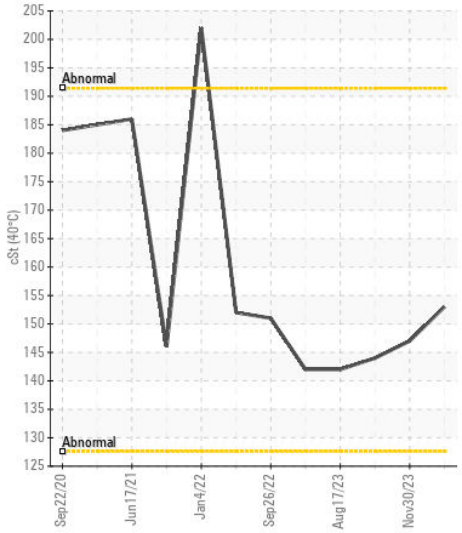
Ferrous Alloys



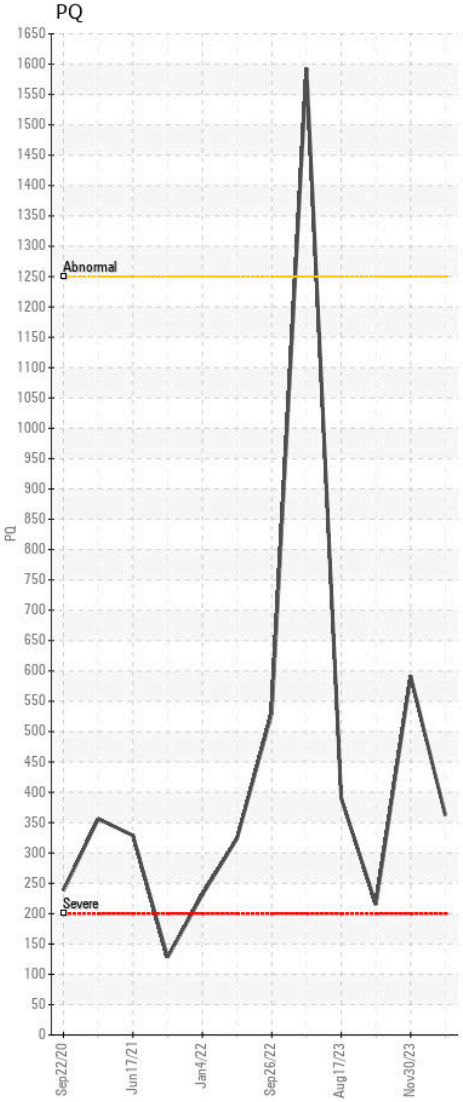
Non-ferrous Metals



Viscosity @ 40°C



PQ



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0201221
Lab Number : 06103241
Unique Number : 10901471
Test Package : CONST (Additional Tests: KF, PQ)

Received : 28 Feb 2024
Tested : 01 Mar 2024
Diagnosed : 01 Mar 2024 - Don Baldridge

JRE - NEW BERN
3816 MARTIN LUTHER KING BLVD
NEW BERN, NC
US 28562
Contact: NEW BERN SHOP
nick.etherdridge@jamesriverequipment.com;canastasio@wearcheckusa.com
T:
F:

Certificate L2367

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)