James River Equipment

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[W67861]
Machine Id
HITACHI 250LC 1FFDC270THF444068 (S/N 1FFDC270THF440068)
Component
Right Final Drive
Fluid
JOHN DEERE GL-5 80W90 (2)

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: W67861)

WEAR

Gear wear is indicated.

CONTAMINATION

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

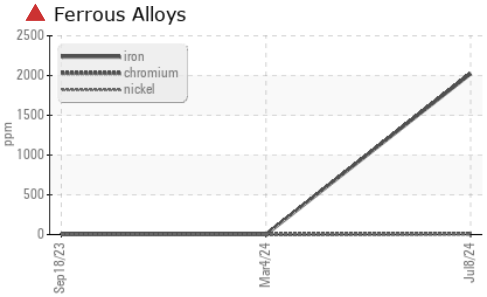
FLUID CONDITION

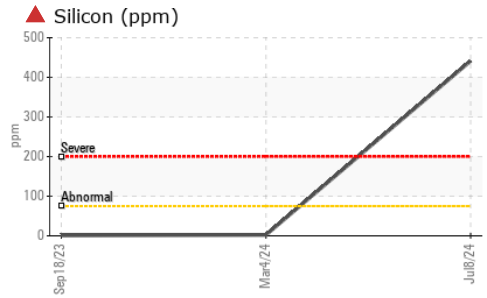
The oil is no longer serviceable due to the presence of contaminants.

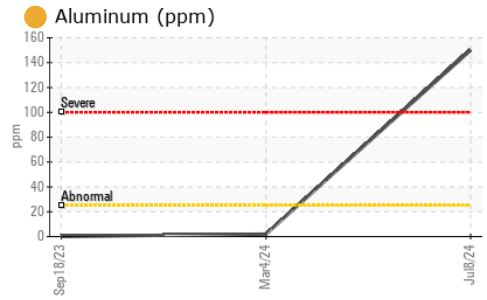
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0205769**	JR0206627	JR0178064
Sample Date		Client Info		**08 Jul 2024**	04 Mar 2024	18 Sep 2023
Machine Age	hrs	Client Info		**9440**	9004	8457
Oil Age	hrs	Client Info		**9440**	9004	8457
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	Not Changd	Not Changd
Filter Changed		Client Info		**N/A**	N/A	Not Changd
Sample Status				**SEVERE**	NORMAL	NORMAL
PQ		ASTM D8184		**536**	11	7
Iron	ppm	ASTM D5185m	>500	▲ **2022**	1	1
Chromium	ppm	ASTM D5185m	>10	▲ **13**	<1	0
Nickel	ppm	ASTM D5185m	>10	**1**	0	0
Titanium	ppm	ASTM D5185m		**12**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	● **150**	2	<1
Lead	ppm	ASTM D5185m	>25	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**5**	<1	0
Tin	ppm	ASTM D5185m	>10	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ **441**	2	<1
Potassium	ppm	ASTM D5185m	>20	**13**	2	0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Silt	scalar	*Visual	NONE	**MODER**	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	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**26**	0	<1
Boron	ppm	ASTM D5185m		**28**	<1	9
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	<1	3
Manganese	ppm	ASTM D5185m		**14**	0	0
Magnesium	ppm	ASTM D5185m		**19**	4	11
Calcium	ppm	ASTM D5185m		**41**	13	18
Phosphorus	ppm	ASTM D5185m		**466**	288	375
Zinc	ppm	ASTM D5185m		**4**	5	4
Sulfur	ppm	ASTM D5185m		**20537**	19199	22259
Visc @ 40°C	cSt	ASTM D445		**146**	142	141

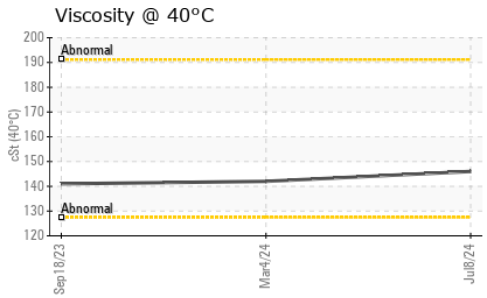
Report Id: JAMCHA [WUSCAR] 06232451 (Generated: 07/12/2024 10:59:31) Rev: 1

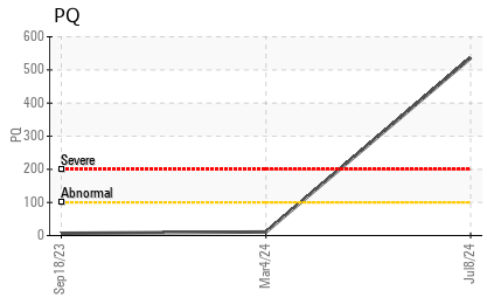
Submitted By: Mike Young - CHARLOTTE SHOP

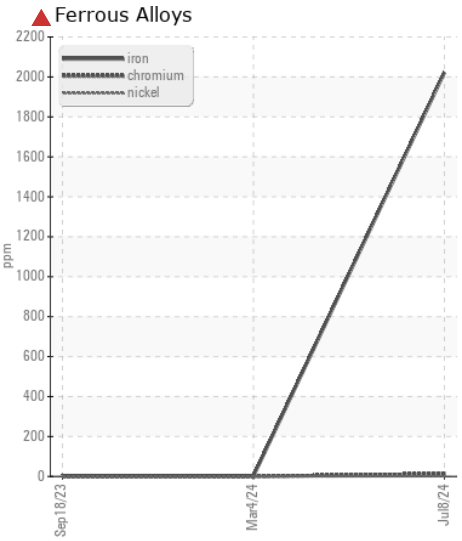


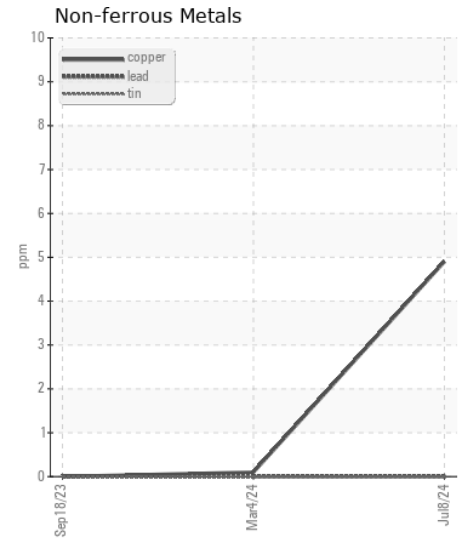


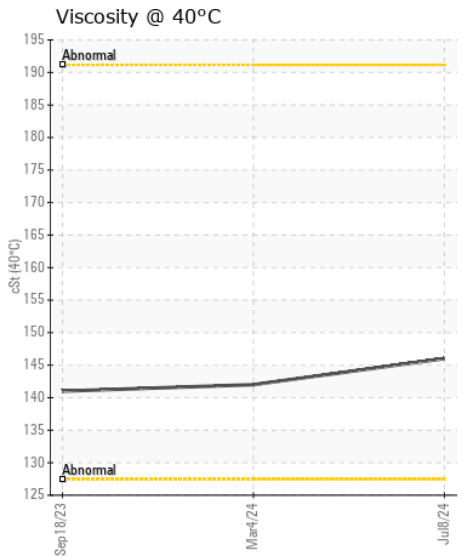


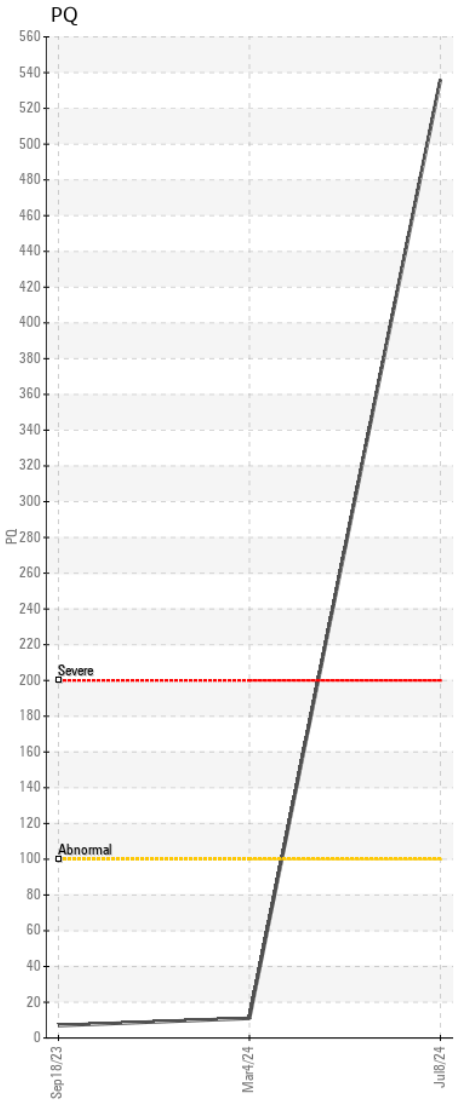












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0205769
Lab Number : 06232451
Unique Number : 11115944
Test Package : CONST (Additional Tests: PQ)

Received : 10 Jul 2024
Tested : 11 Jul 2024
Diagnosed : 11 Jul 2024 - Sean Felton

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 - CHARLOTTE
9550 STATESVILLE ROAD
CHARLOTTE, NC
US 28269
Contact: Chuck Sorrow
JSorrow@jamesriverequipment.com
T:
F: (704)596-6198