MOB

James River Equipment

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[W8423]
Machine Id
HITACHI 210LC-6 1FFDC571LJF340529
Component
Right Final Drive
Fluid
JOHN DEERE GL-5 80W90 (2 GAL)

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. (Customer Sample Comment: W8423)

WEAR

Gear wear is indicated.

CONTAMINATION

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

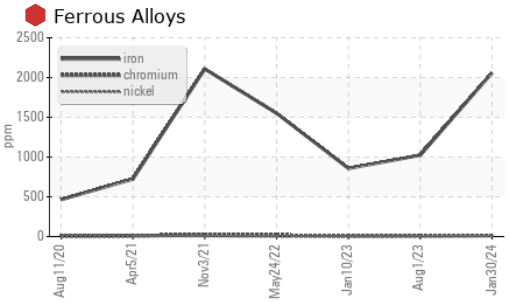
FLUID CONDITION

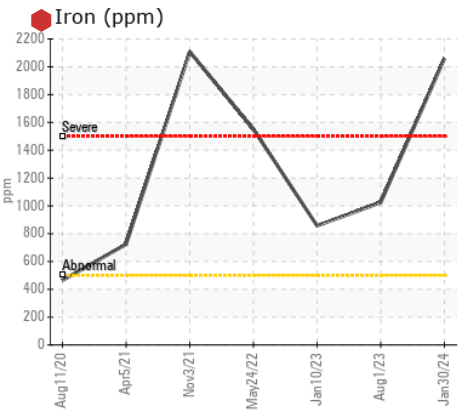
The oil is no longer serviceable due to the presence of contaminants.

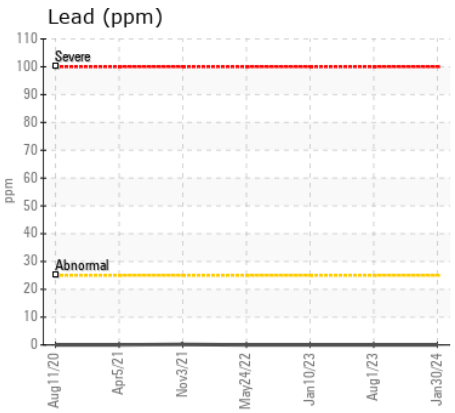
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0183121	JR0141108	JR0140525
Sample Date		Client Info		30 Jan 2024	01 Aug 2023	10 Jan 2023
Machine Age	hrs	Client Info		4001	2943	2943
Oil Age	hrs	Client Info		2466	1970	2435
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
PQ		ASTM D8184		1377	529	544
Iron	ppm	ASTM D5185m	>500	⬢ 2059	▲ 1024	▲ 857
Chromium	ppm	ASTM D5185m	>10	▲ 14	7	6
Nickel	ppm	ASTM D5185m	>10	4	3	2
Titanium	ppm	ASTM D5185m		9	5	4
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ 70	▲ 51	▲ 32
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	5	3	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	⬢ 452	▲ 315	▲ 230
Potassium	ppm	ASTM D5185m	>20	11	8	4
Water		WC Method	>0.2	NEG	NEG	NEG
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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		0	2	3
Boron	ppm	ASTM D5185m		11	7	5
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		2	<1	<1
Manganese	ppm	ASTM D5185m		15	8	7
Magnesium	ppm	ASTM D5185m		4	2	2
Calcium	ppm	ASTM D5185m		50	49	40
Phosphorus	ppm	ASTM D5185m		308	302	352
Zinc	ppm	ASTM D5185m		5	21	7
Sulfur	ppm	ASTM D5185m		19645	21688	21832
Visc @ 40°C	cSt	ASTM D445		147	139	142

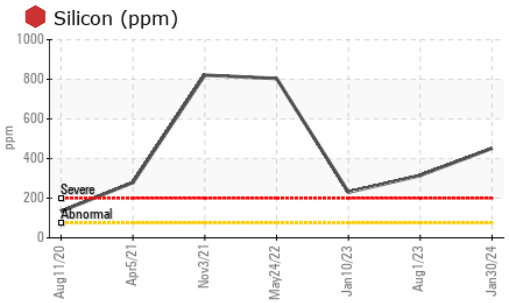
Report Id: RWMFAY [WUSCAR] 06077164 (Generated: 02/03/2024 10:57:32) Rev: 1

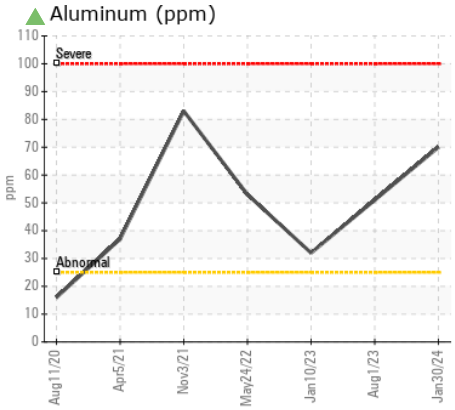
Submitted By: Fayetteville - JUSTIN JACKSON

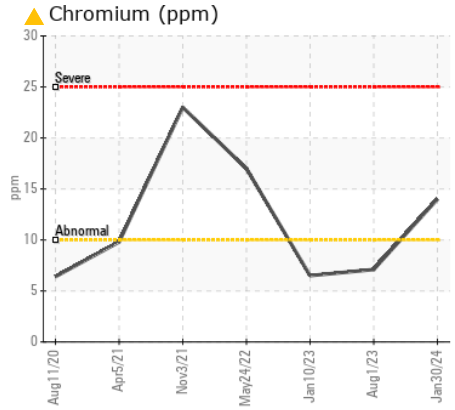


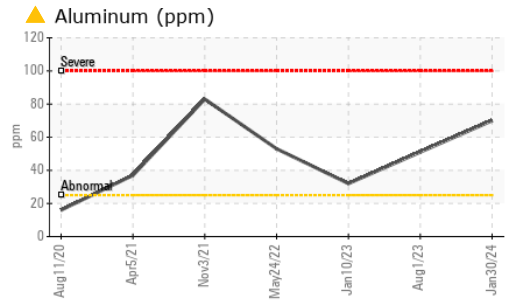


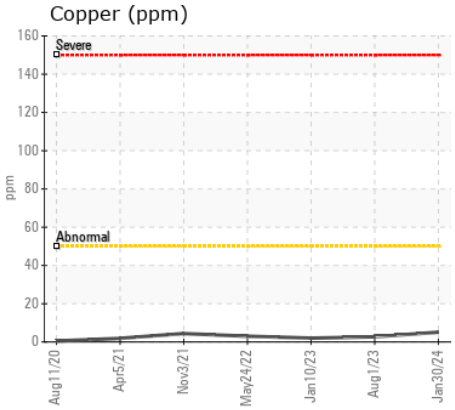


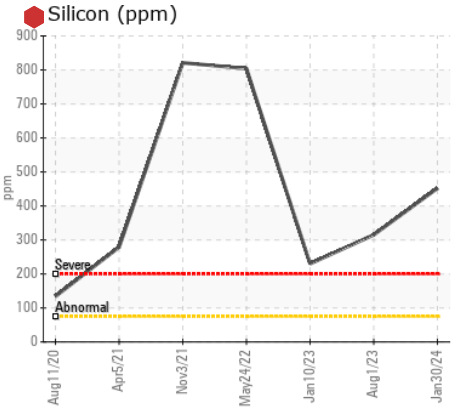


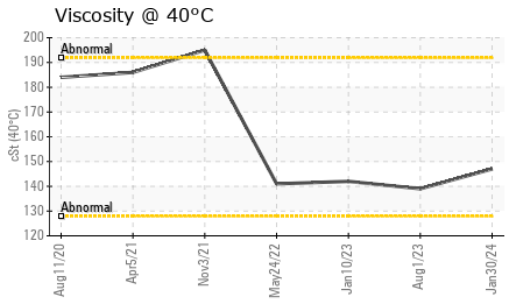


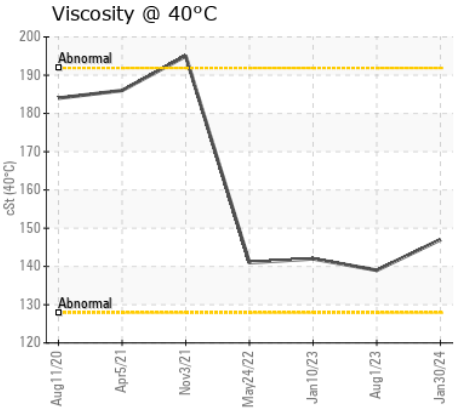


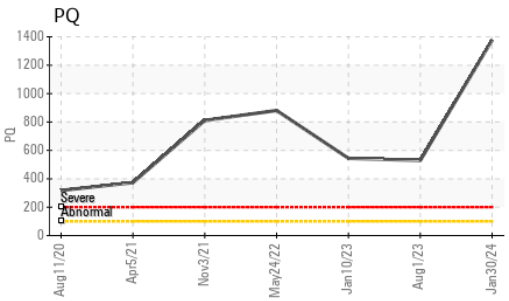


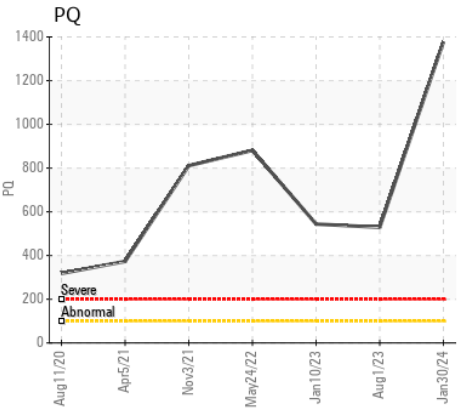












Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: JR0183121	**Recieved**	: 01 Feb 2024
Lab Number	: 06077164	**Diagnosed**	: 03 Feb 2024
Unique Number	: 10859255	**Diagnostician**	: Don Baldridge
Test Package	: MOBCE (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 - HOPE MILLS/FAYETTEVILLE
5039 HWY 301 SOUTH
HOPE MILLS, NC
US 28348
Contact: FAYETTEVILLE SHOP
stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com
T:
F:

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