James River Equipment

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W65260-1]
Machine Id
JOHN DEERE 310E 1DW310EXVMF710644
Component
Rear Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

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.

WEAR

Bearing and/or bushing wear is indicated.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

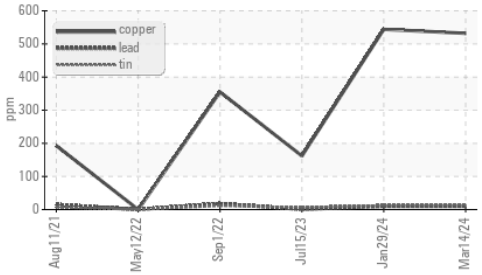
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0206352**	JR0198040	JR0170696
Sample Date		Client Info		**14 Mar 2024**	29 Jan 2024	15 Jul 2023
Machine Age	hrs	Client Info		**3302**	2640	2640
Oil Age	hrs	Client Info		**0**	2060	2060
Filter Age	hrs	Client Info		**0**	2060	0
Oil Changed		Client Info		**Not Changd**	N/A	Not Changd
Filter Changed		Client Info		**Not Changd**	Changed	Not Changd
Sample Status				**SEVERE**	SEVERE	ABNORMAL
PQ		ASTM D8184		**79**	60	95
Iron	ppm	ASTM D5185m	>500	**228**	185	149
Chromium	ppm	ASTM D5185m	>10	**2**	1	1
Nickel	ppm	ASTM D5185m	>10	**3**	2	2
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**3**	2	2
Lead	ppm	ASTM D5185m	>25	**10**	10	<1
Copper	ppm	ASTM D5185m	>100	▲ **532**	▲ 544	▲ 162
Tin	ppm	ASTM D5185m	>10	▲ **14**	▲ 13	7
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	**15**	11	11
Potassium	ppm	ASTM D5185m	>20	**2**	0	1
Water		WC Method	>.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	>.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**3**	3	5
Boron	ppm	ASTM D5185m	6	**10**	9	11
Barium	ppm	ASTM D5185m	0	**0**	1	0
Molybdenum	ppm	ASTM D5185m	0	**<1**	0	<1
Manganese	ppm	ASTM D5185m		**9**	9	17
Magnesium	ppm	ASTM D5185m	145	**88**	87	96
Calcium	ppm	ASTM D5185m	3570	**3314**	3154	3929
Phosphorus	ppm	ASTM D5185m	1290	**983**	992	1140
Zinc	ppm	ASTM D5185m	1640	**1281**	1207	1377
Sulfur	ppm	ASTM D5185m		**3747**	3287	4823
Visc @ 40°C	cSt	ASTM D445	57.0	**54.1**	54.1	54.0

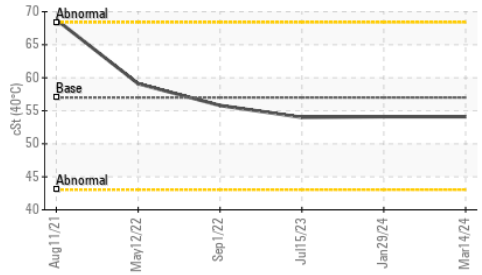
Report Id: CARCHAJR [WUSCAR] 06122702 (Generated: 03/21/2024 15:38:14) Rev: 1

Submitted By: John Roberts

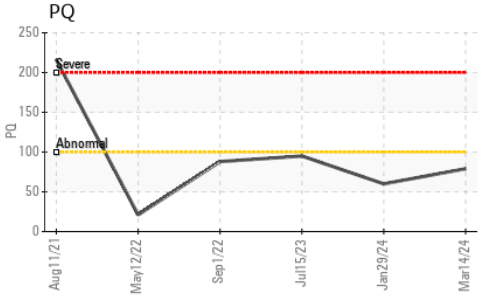
Non-ferrous Metals



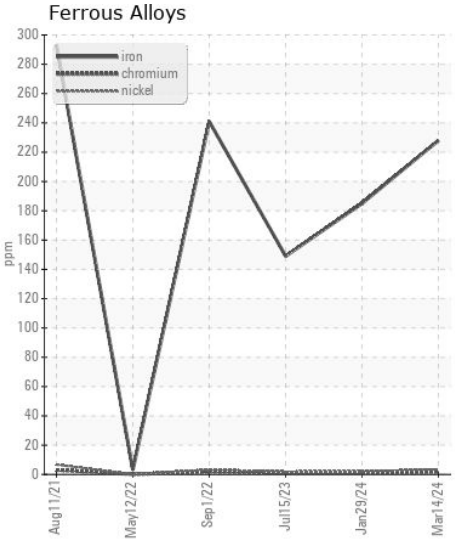
Viscosity @ 40°C



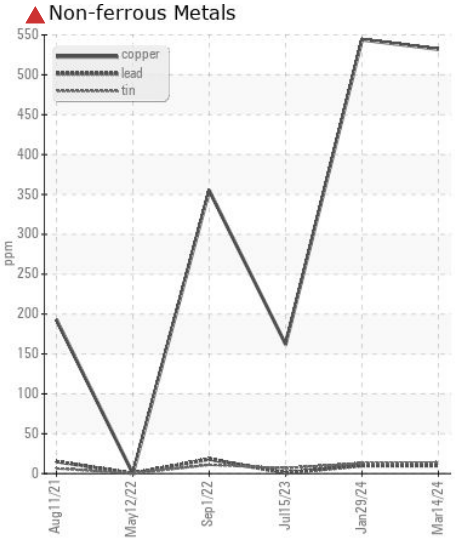
PQ



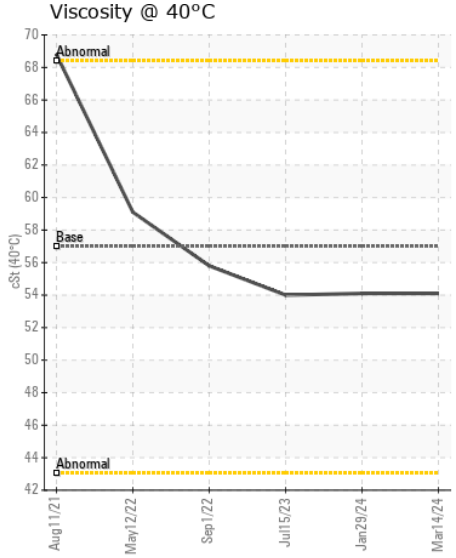
Ferrous Alloys



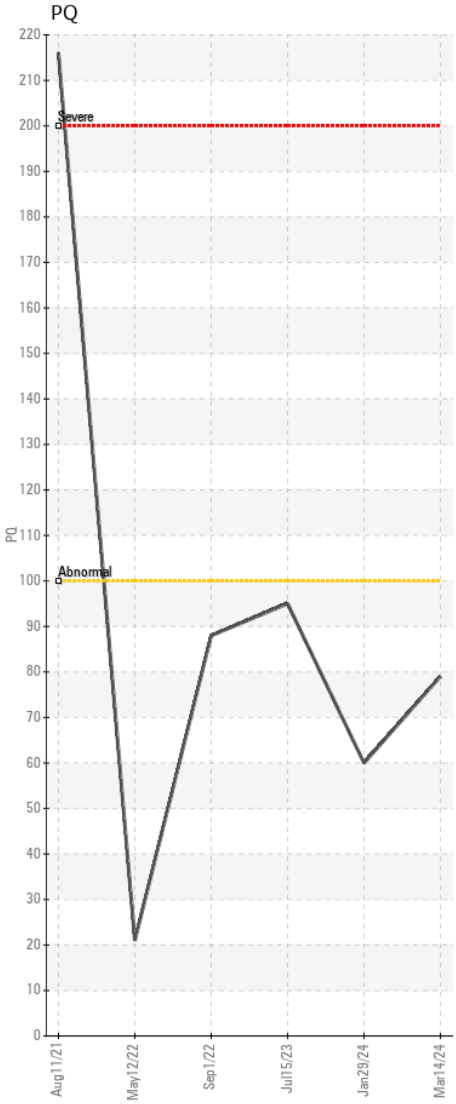
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206352 **Received** : 19 Mar 2024
Lab Number : 06122702 **Tested** : 20 Mar 2024
Unique Number : 10936853 **Diagnosed** : 21 Mar 2024 - 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)

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CHARLOTTE, NC
US 28269
Contact: LEO

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Submitted By: John Roberts