MOB

James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 624 P 1DW624PAANLZ14651
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (23 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

Bearing and/or bushing wear is indicated.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

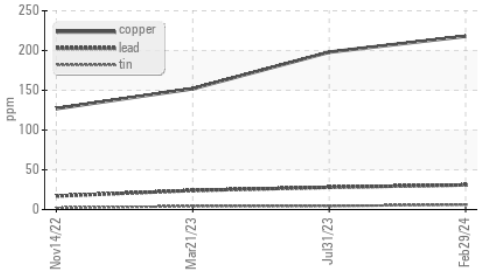
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0084558**	JR0169021	JR0166282
Sample Date		Client Info		**29 Feb 2024**	31 Jul 2023	21 Mar 2023
Machine Age	hrs	Client Info		**1967**	1441	967
Oil Age	hrs	Client Info		**1967**	1441	967
Filter Age	hrs	Client Info		**1967**	474	497
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Filter Changed		Client Info		**Changed**	Not Changd	Changed
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL
PQ		ASTM D8184		**20**	24	17
Iron	ppm	ASTM D5185m	>500	**62**	64	93
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**<1**	<1	4
Lead	ppm	ASTM D5185m	>25	▲ **31**	▲ 28	24
Copper	ppm	ASTM D5185m	>100	▲ **218**	▲ 198	152
Tin	ppm	ASTM D5185m	>10	**6**	4	4
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	**4**	3	19
Potassium	ppm	ASTM D5185m	>20	**2**	3	3
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		**6**	8	6
Boron	ppm	ASTM D5185m	6	**3**	0	2
Barium	ppm	ASTM D5185m	0	**3**	3	0
Molybdenum	ppm	ASTM D5185m	0	**0**	2	1
Manganese	ppm	ASTM D5185m		**2**	2	3
Magnesium	ppm	ASTM D5185m	145	**84**	100	95
Calcium	ppm	ASTM D5185m	3570	**3025**	3585	3386
Phosphorus	ppm	ASTM D5185m	1290	**927**	1072	998
Zinc	ppm	ASTM D5185m	1640	**1121**	1301	1228
Sulfur	ppm	ASTM D5185m		**3357**	4447	3957
Visc @ 40°C	cSt	ASTM D445	57.0	**53.5**	53.3	52.9

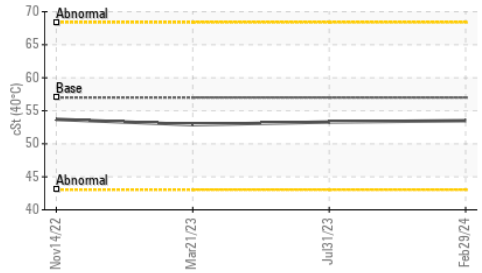
Report Id: BSSWAR [WUSCAR] 06106367 (Generated: 03/05/2024 13:14:40) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

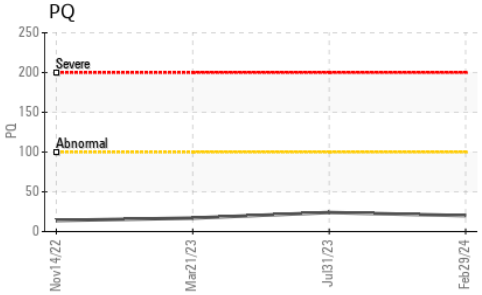
Non-ferrous Metals



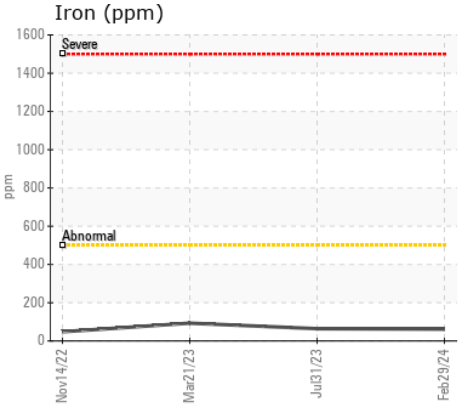
Viscosity @ 40°C



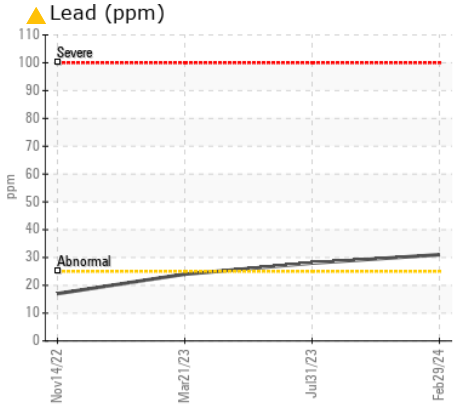
PQ



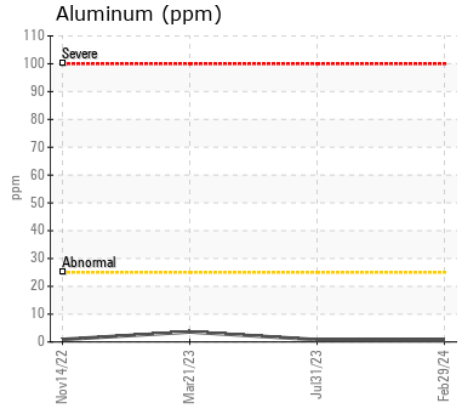
Iron (ppm)



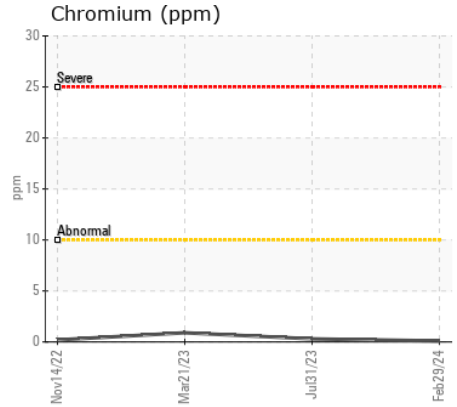
Lead (ppm)



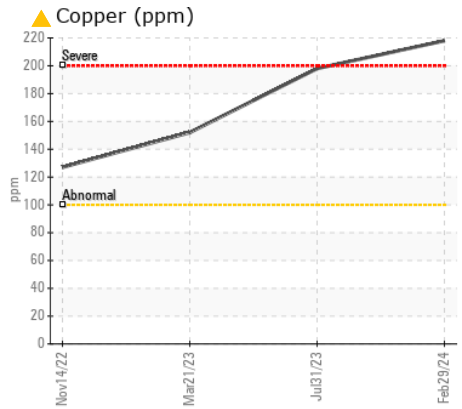
Aluminum (ppm)



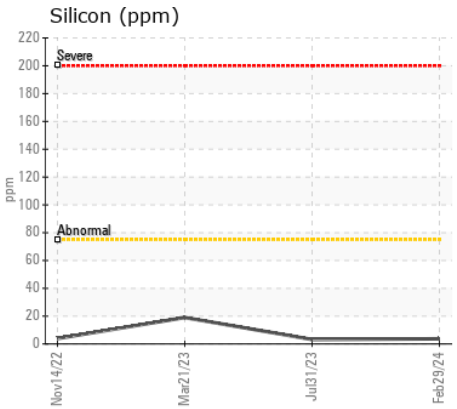
Chromium (ppm)



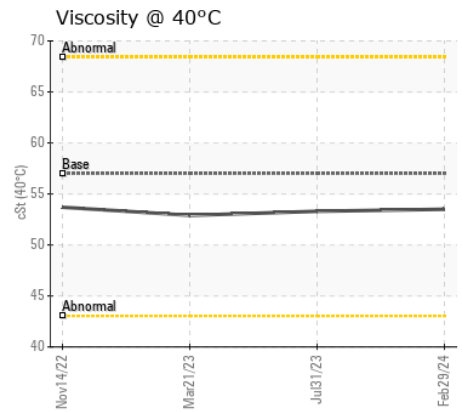
Copper (ppm)



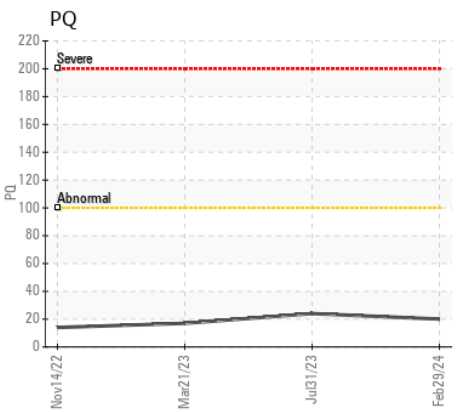
Silicon (ppm)



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0084558
Lab Number : 06106367
Unique Number : 10909864
Test Package : MOBCE (Additional Tests: PQ)

Received : 01 Mar 2024
Tested : 03 Mar 2024
Diagnosed : 05 Mar 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)

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