



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 748L 1dw748lbepI717202

Component
Front Differential

Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200792	JR0186551	JR0176733
Sample Date		Client Info		08 Feb 2024	15 Nov 2023	01 Aug 2023
Machine Age	hrs	Client Info		1712	1066	516
Oil Age	hrs	Client Info		0	550	516
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Changed
Filter Changed		Client Info		Not Changed	Not Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		16	21	37
Iron	ppm	ASTM D5185m	>500	41	35	79
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	2
Lead	ppm	ASTM D5185m	>25	<1	<1	2
Copper	ppm	ASTM D5185m	>100	15	8	20
Tin	ppm	ASTM D5185m	>10	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

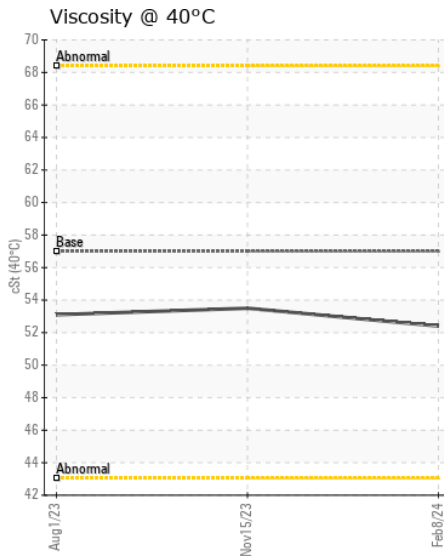
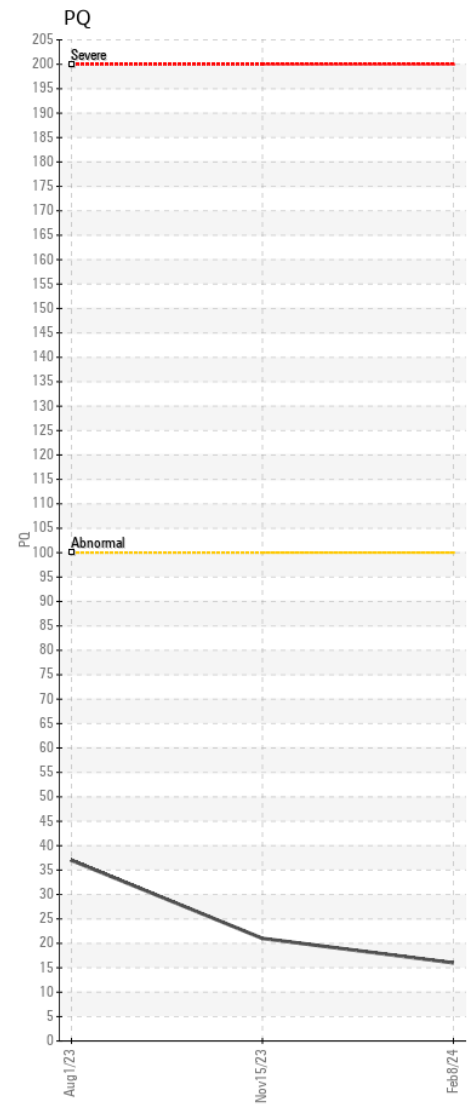
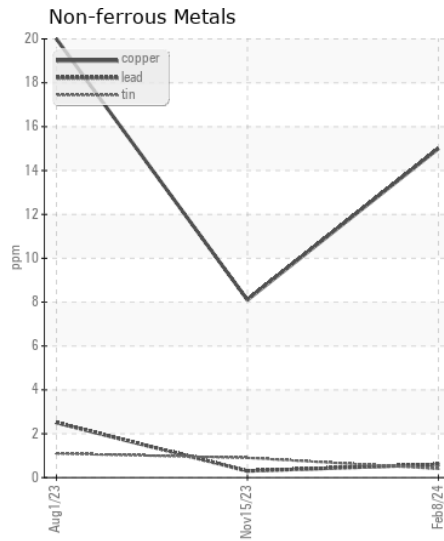
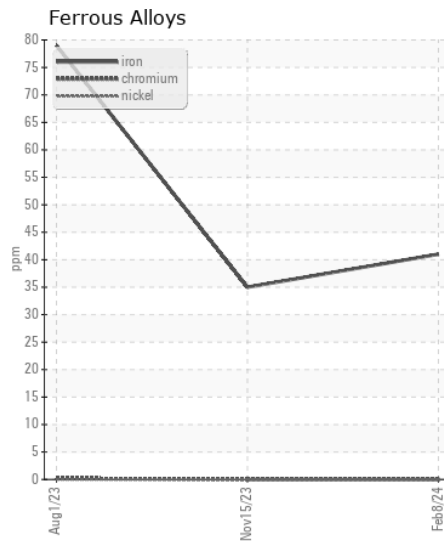
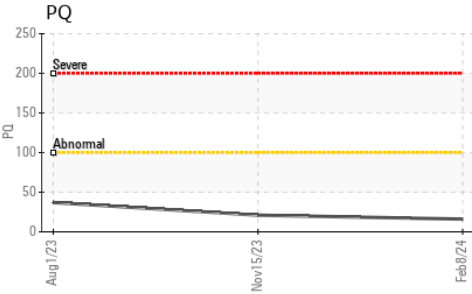
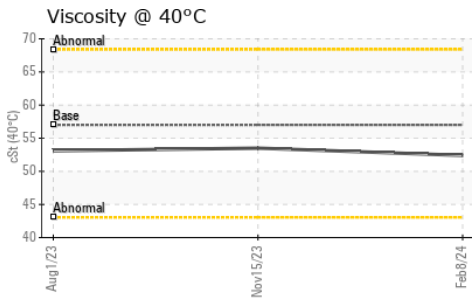
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	4	5	6
Potassium	ppm	ASTM D5185m	>20	8	2	5
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	3	2
Boron	ppm	ASTM D5185m	6	9	7	1
Barium	ppm	ASTM D5185m	0	0	<1	4
Molybdenum	ppm	ASTM D5185m	0	2	<1	<1
Manganese	ppm	ASTM D5185m		2	2	7
Magnesium	ppm	ASTM D5185m	145	103	106	98
Calcium	ppm	ASTM D5185m	3570	3457	3447	3821
Phosphorus	ppm	ASTM D5185m	1290	1066	1015	1060
Zinc	ppm	ASTM D5185m	1640	1213	1240	1295
Sulfur	ppm	ASTM D5185m		4036	3635	4104
Visc @ 40°C	cSt	ASTM D445	57.0	52.4	53.5	53.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200792 **Received** : 22 Feb 2024
Lab Number : 06097244 **Tested** : 23 Feb 2024
Unique Number : 10890097 **Diagnosed** : 23 Feb 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

NEUSE RIVER FOREST PRODUCTS
 PO BOX 234
 PRINCETON, NC
 US 27569
 Contact: Service Manager
 neuseriverftp@gmail.com
 T:
 F:

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)