



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[16W14674]

Machine Id

JOHN DEERE 748L 1DW748LBCNF714000

Component

Rear Differential

Fluid

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

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W14674)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0185432	JR0098258	---
Sample Date		Client Info		03 Oct 2023	07 Jul 2023	---
Machine Age	hrs	Client Info		2536	2105	---
Oil Age	hrs	Client Info		431	1575	---
Filter Age	hrs	Client Info		431	976	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		18	30	---
Iron	ppm	ASTM D5185m	>500	38	117	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	0	2	---
Lead	ppm	ASTM D5185m	>25	1	5	---
Copper	ppm	ASTM D5185m	>100	11	41	---
Tin	ppm	ASTM D5185m	>10	<1	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

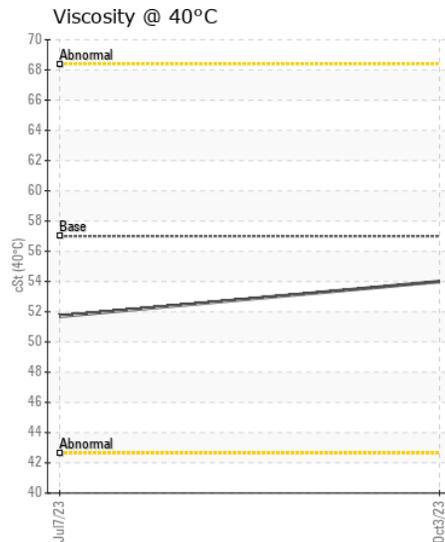
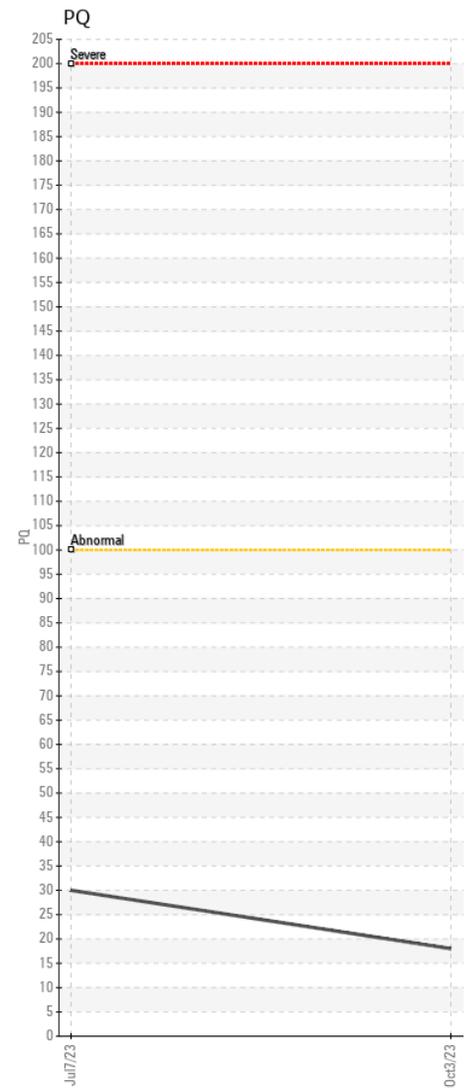
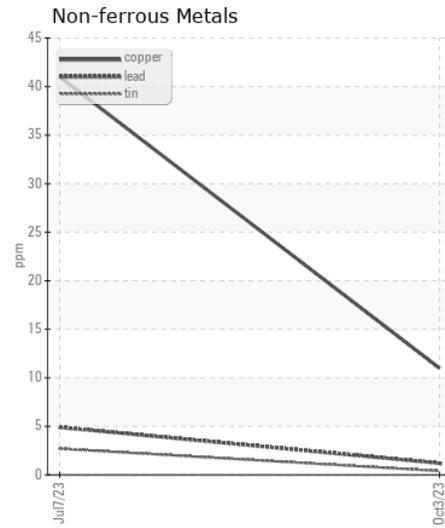
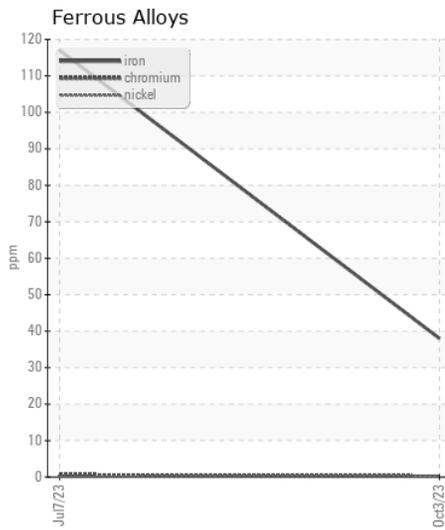
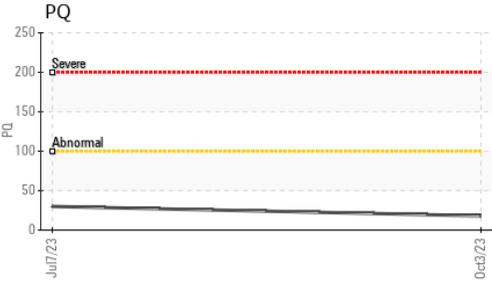
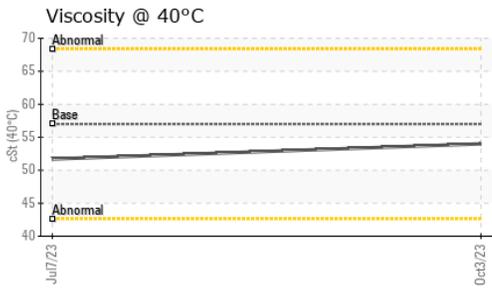
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	4	5	---
Potassium	ppm	ASTM D5185m	>20	2	1	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	6	---
Boron	ppm	ASTM D5185m	6	0	2	---
Barium	ppm	ASTM D5185m	0	0	4	---
Molybdenum	ppm	ASTM D5185m	0	<1	<1	---
Manganese	ppm	ASTM D5185m		1	4	---
Magnesium	ppm	ASTM D5185m	145	100	104	---
Calcium	ppm	ASTM D5185m	3570	3491	3625	---
Phosphorus	ppm	ASTM D5185m	1290	1091	1086	---
Zinc	ppm	ASTM D5185m	1640	1307	1368	---
Sulfur	ppm	ASTM D5185m		3928	4841	---
Visc @ 40°C	cSt	ASTM D445	57.0	54.0	51.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0185432 **Received** : 05 Oct 2023
Lab Number : 05970981 **Diagnosed** : 10 Oct 2023
Unique Number : 10682931 **Diagnostician** : Sean Felton
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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