



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 748L 1DW748LDKMF709603

Component
Rear Differential

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

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0209761	JR0185437	JR0082367
Sample Date		Client Info		10 May 2024	06 Oct 2023	20 Mar 2023
Machine Age	hrs	Client Info		6055	5120	4043
Oil Age	hrs	Client Info		4978	1077	4043
Filter Age	hrs	Client Info		0	1077	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal for time on oil.

PQ		ASTM D8184		1231	24	20
Iron	ppm	ASTM D5185m	>500	695	68	68
Chromium	ppm	ASTM D5185m	>10	3	<1	<1
Nickel	ppm	ASTM D5185m	>10	7	<1	<1
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	0	2
Lead	ppm	ASTM D5185m	>25	2	<1	1
Copper	ppm	ASTM D5185m	>100	41	30	33
Tin	ppm	ASTM D5185m	>10	3	2	2
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	HEAVY	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

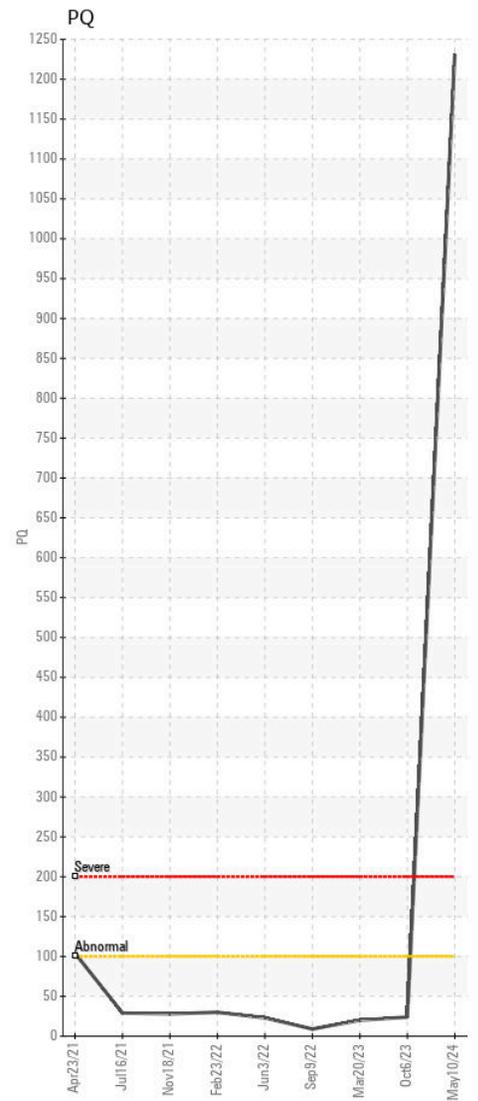
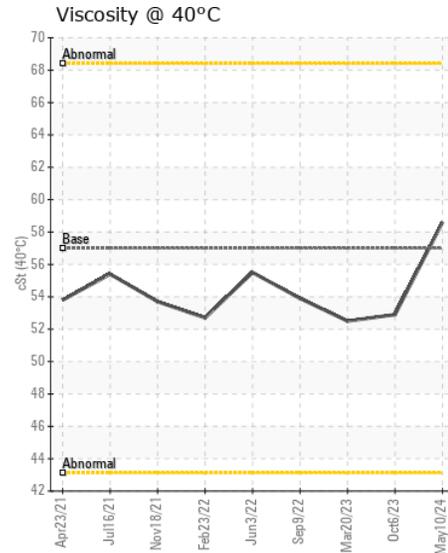
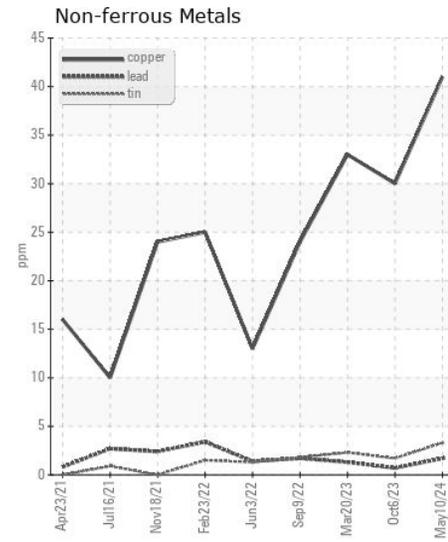
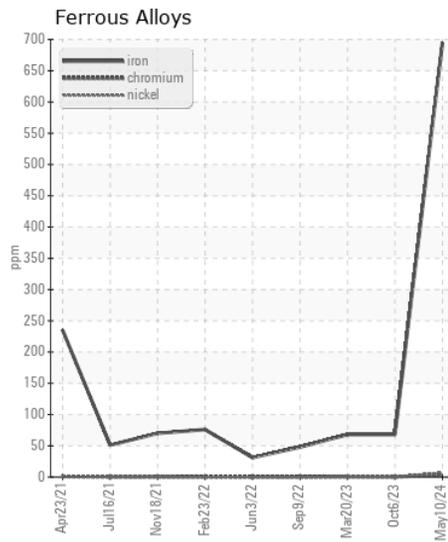
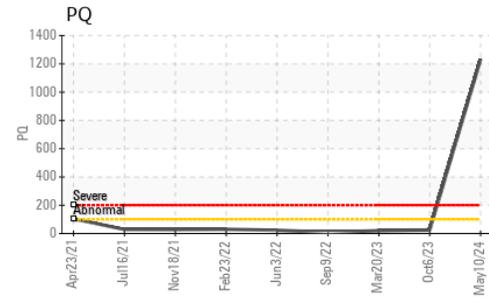
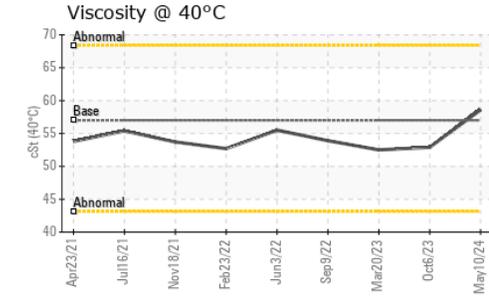
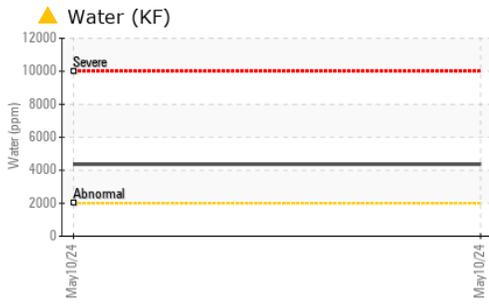
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	26	4	4
Potassium	ppm	ASTM D5185m	>20	4	3	2
Water	%	ASTM D6304	>.2	▲ 0.436	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 4360	---	---
Silt	scalar	*Visual	NONE	MODER	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	▲ 0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	0	3
Boron	ppm	ASTM D5185m	6	1	<1	4
Barium	ppm	ASTM D5185m	0	2	<1	0
Molybdenum	ppm	ASTM D5185m	0	2	<1	2
Manganese	ppm	ASTM D5185m		9	<1	1
Magnesium	ppm	ASTM D5185m	145	99	91	95
Calcium	ppm	ASTM D5185m	3570	4566	3145	3346
Phosphorus	ppm	ASTM D5185m	1290	1172	1030	968
Zinc	ppm	ASTM D5185m	1640	1297	1277	1191
Sulfur	ppm	ASTM D5185m		4122	4144	3548
Visc @ 40°C	cSt	ASTM D445	57.0	58.6	52.9	52.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0209761 **Received** : 13 May 2024
Lab Number : **06177416** **Tested** : 15 May 2024
Unique Number : 11023469 **Diagnosed** : 15 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

Contact: RALEIGH SHOP
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

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)

T: (919)614-2260
 F: (919)779-5432