



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 744K 1DW744KXCJF689230

Component
Rear Differential

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

RECOMMENDATION

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203068	JR0190043	JR0176112
Sample Date		Client Info		21 Feb 2024	19 Oct 2023	05 Jul 2023
Machine Age	hrs	Client Info		4983	4438	3946
Oil Age	hrs	Client Info		4491	0	2521
Filter Age	hrs	Client Info		4491	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		11	24	46
Iron	ppm	ASTM D5185m	>500	19	19	65
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	2	<1
Lead	ppm	ASTM D5185m	>25	9	3	9
Copper	ppm	ASTM D5185m	>100	8	3	9
Tin	ppm	ASTM D5185m	>10	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

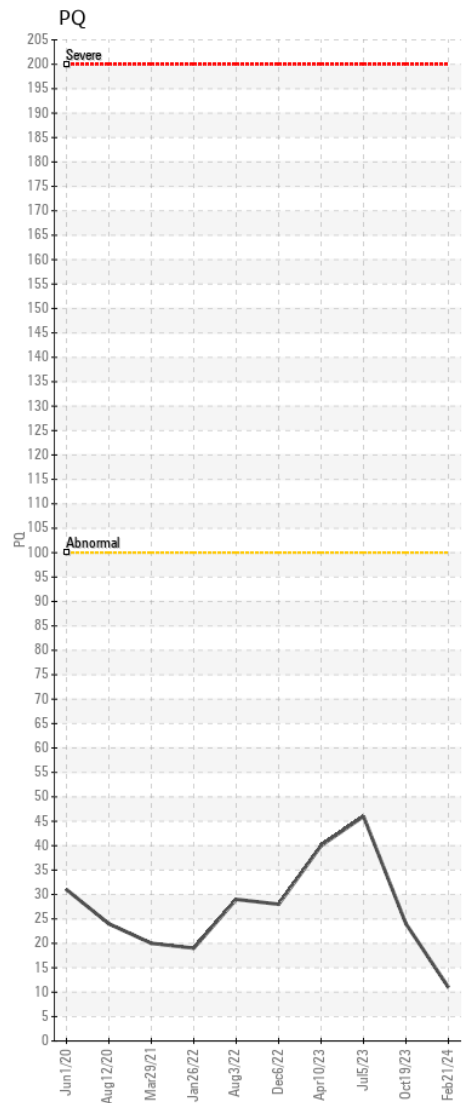
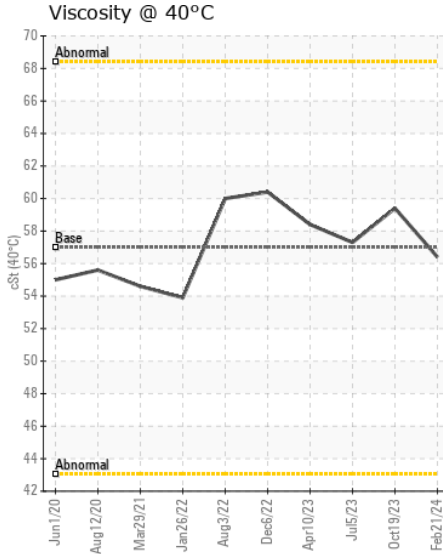
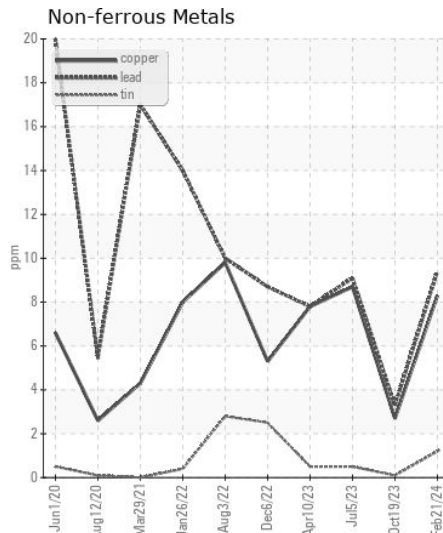
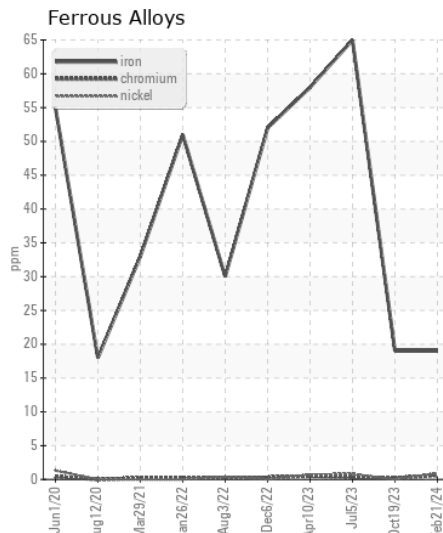
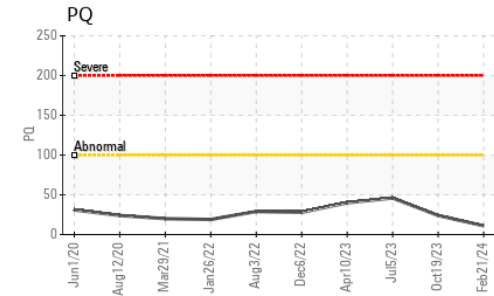
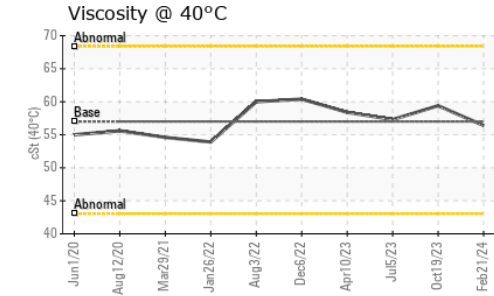
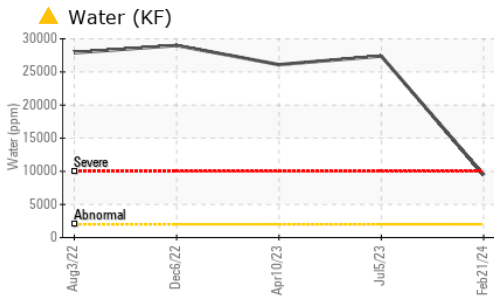
There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	8	6	7
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water	%	ASTM D6304	>.2	▲ 0.945	---	● 2.74
ppm Water	ppm	ASTM D6304	>2000	▲ 9450	---	● 27400
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	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	▲ 0.2%	NEG	● 0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		1	0	1
Boron	ppm	ASTM D5185m	6	8	6	15
Barium	ppm	ASTM D5185m	0	12	0	<1
Molybdenum	ppm	ASTM D5185m	0	5	5	7
Manganese	ppm	ASTM D5185m		1	0	<1
Magnesium	ppm	ASTM D5185m	145	83	91	78
Calcium	ppm	ASTM D5185m	3570	3010	3262	2674
Phosphorus	ppm	ASTM D5185m	1290	963	1148	1085
Zinc	ppm	ASTM D5185m	1640	1140	1295	1132
Sulfur	ppm	ASTM D5185m		3849	4706	4615
Visc @ 40°C	cSt	ASTM D445	57.0	56.4	59.4	57.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203068 **Received** : 22 Feb 2024
Lab Number : 06097930 **Tested** : 23 Feb 2024
Unique Number : 10896160 **Diagnosed** : 25 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, 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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