



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 444K 1DW444KZTHF678950

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0202205	JR0156731	JR0050200
Sample Date		Client Info		07 Feb 2024	23 Jan 2023	10 Jun 2020
Machine Age	hrs	Client Info		4409	3552	1954
Oil Age	hrs	Client Info		0	3552	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	16	9	20
Iron	ppm	ASTM D5185m	>71	7	6	10
Chromium	ppm	ASTM D5185m	>11	4	4	5
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>11	1	2	2
Lead	ppm	ASTM D5185m	>13	0	<1	1
Copper	ppm	ASTM D5185m	>21	5	4	7
Tin	ppm	ASTM D5185m	>5	0	0	<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

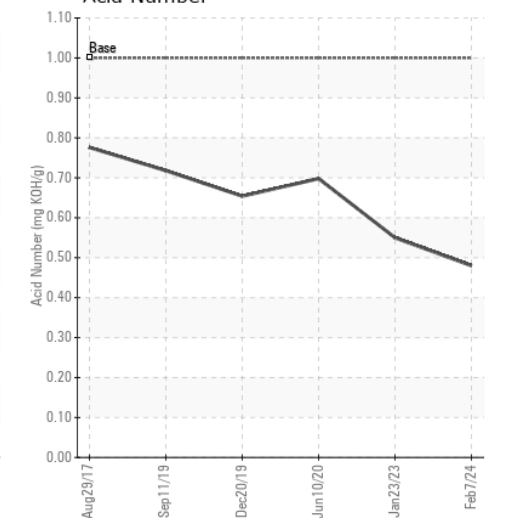
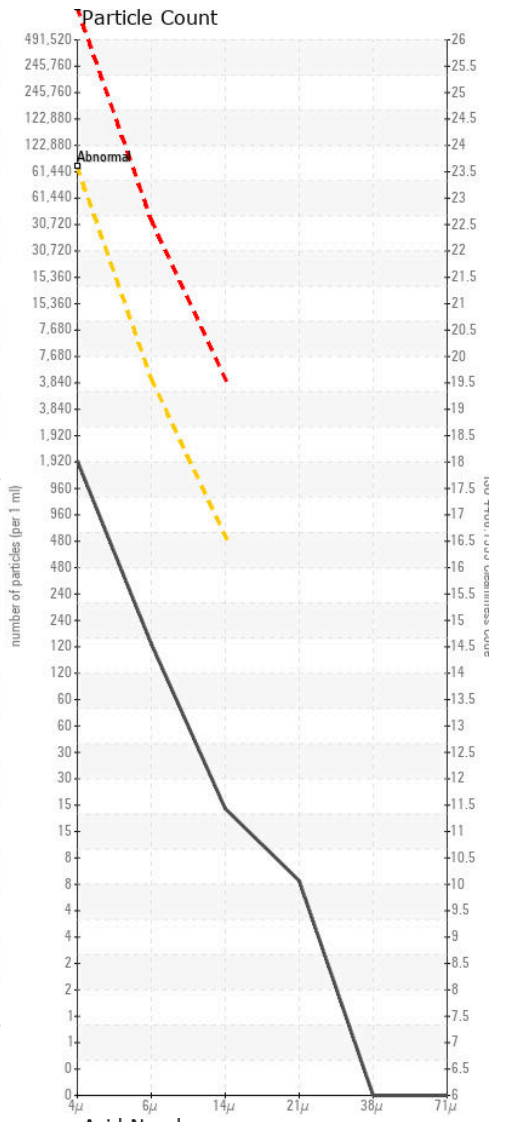
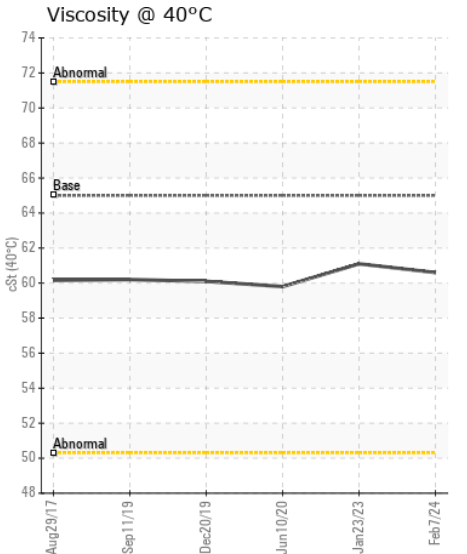
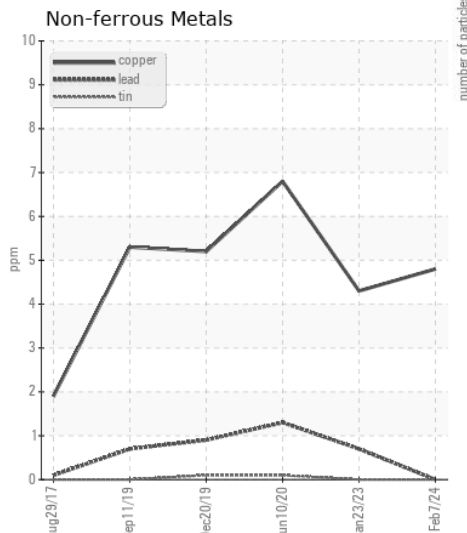
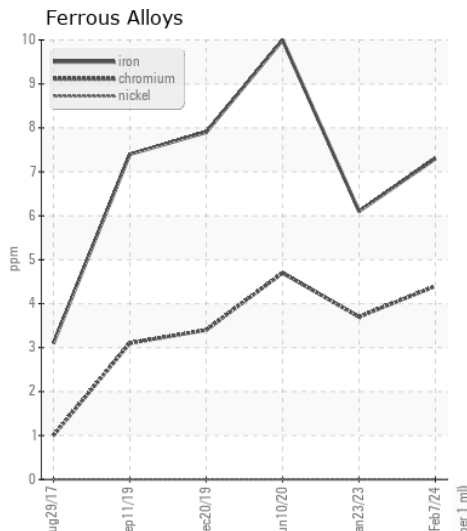
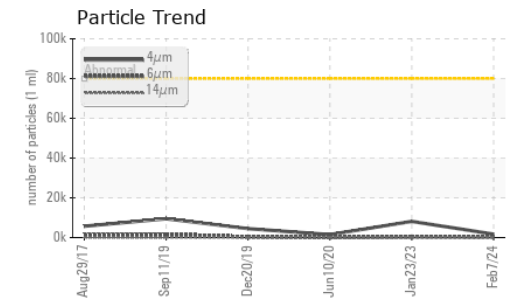
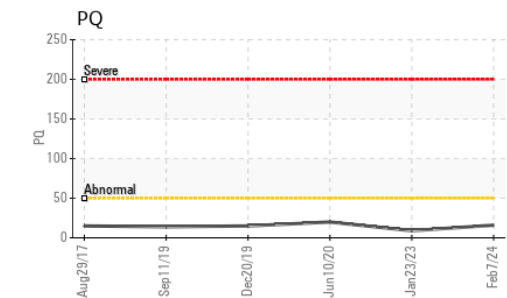
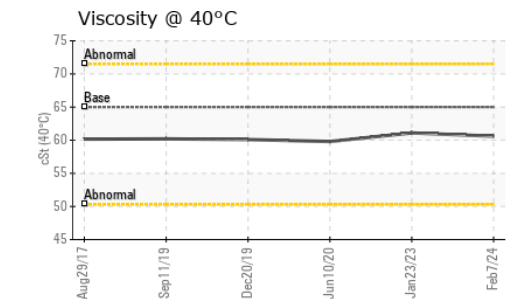
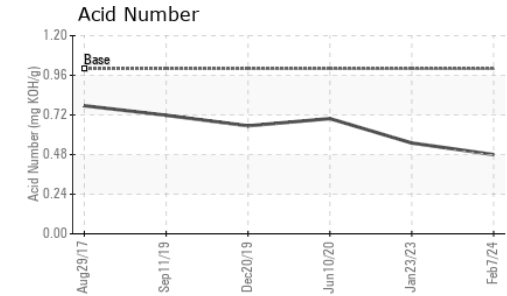
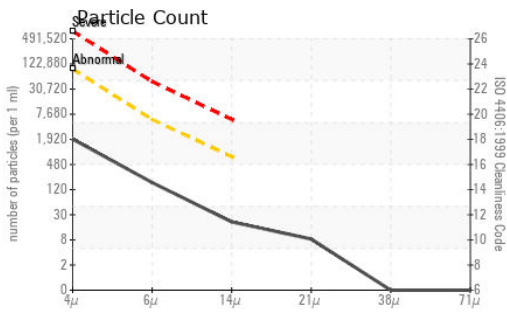
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>24	3	2	3
Potassium	ppm	ASTM D5185m	>20	0	2	2
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	1707	▲ 8145	1496
Particles >6µm		ASTM D7647	>5000	156	328	48
Particles >14µm		ASTM D7647	>640	18	10	6
Particles >21µm		ASTM D7647	>160	7	5	2
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	18/14/11	▲ 20/16/10	18/13/10
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	VLITE
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	>0.075	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	2	0	2
Boron	ppm	ASTM D5185m		<1	0	2
Barium	ppm	ASTM D5185m		0	1	<1
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		<1	1	1
Calcium	ppm	ASTM D5185m	87	126	93	99
Phosphorus	ppm	ASTM D5185m	727	635	633	630
Zinc	ppm	ASTM D5185m	900	832	829	869
Sulfur	ppm	ASTM D5185m	1500	1647	1508	1459
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.48	0.55	0.698
Visc @ 40°C	cSt	ASTM D445	65	60.6	61.1	59.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0202205 **Received** : 09 Feb 2024
Lab Number : 06084686 **Tested** : 12 Feb 2024
Unique Number : 10872131 **Diagnosed** : 12 Feb 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

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 F: (919)779-5432

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)