



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 824K 1DW824KXAJF692402
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		JR0221931	JR0209101	JR0202664
Sample Date		Client Info		26 Jun 2024	10 Apr 2024	26 Jan 2024
Machine Age	hrs	Client Info		6509	6000	5509
Oil Age	hrs	Client Info		0	4529	4551
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>71	21	21	24
Chromium	ppm	ASTM D5185m	>11	11	10	11
Nickel	ppm	ASTM D5185m	>6	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>11	2	2	3
Lead	ppm	ASTM D5185m	>13	1	<1	<1
Copper	ppm	ASTM D5185m	>21	11	12	13
Tin	ppm	ASTM D5185m	>5	1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

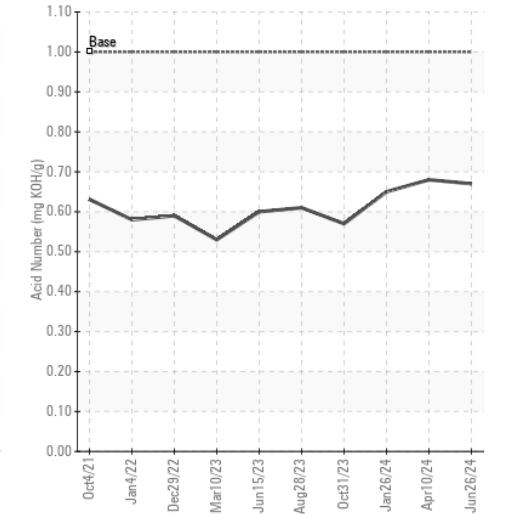
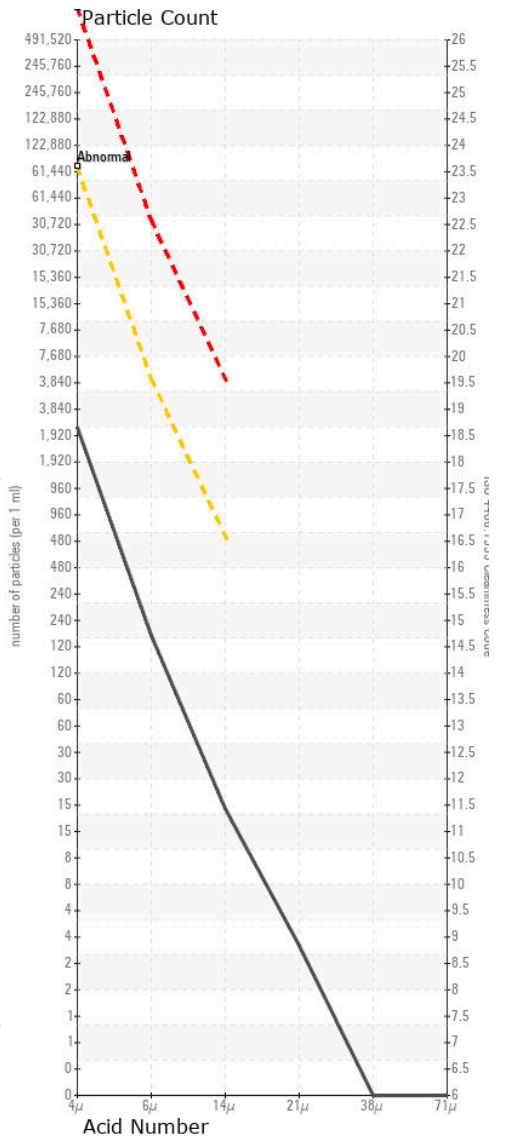
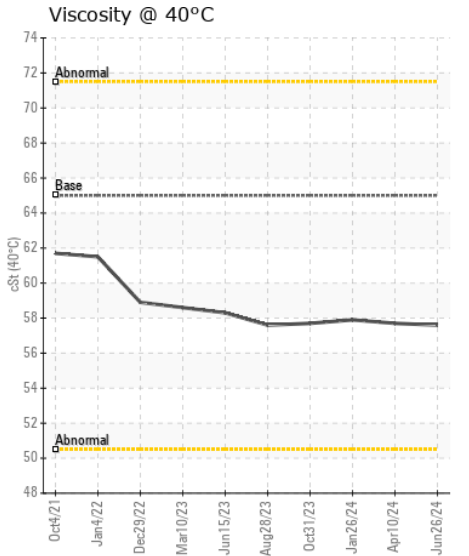
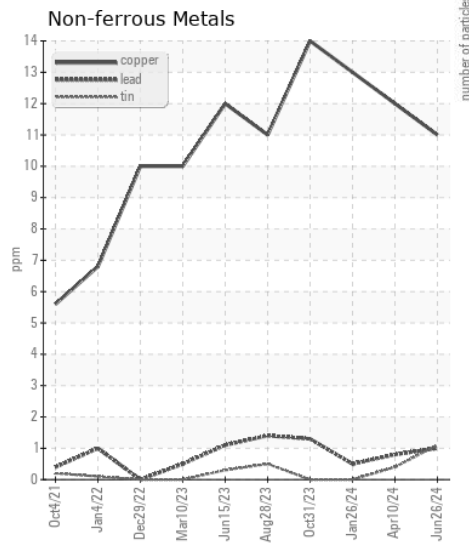
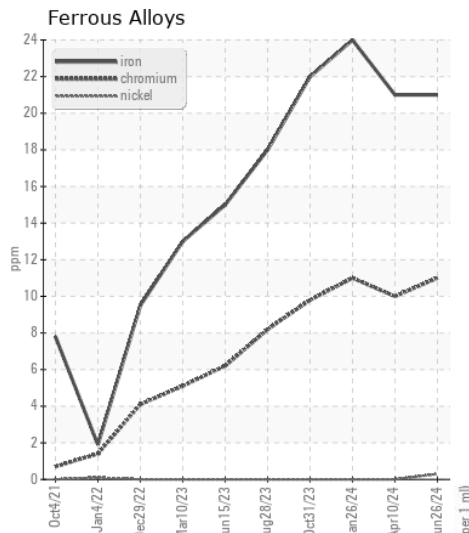
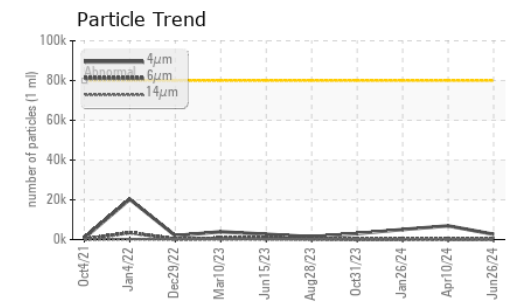
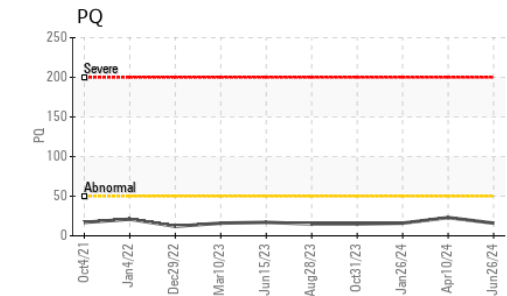
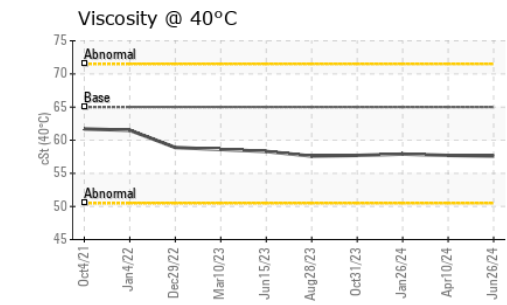
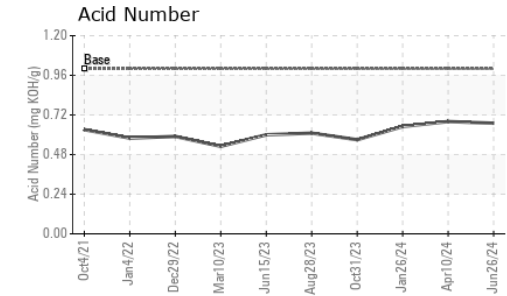
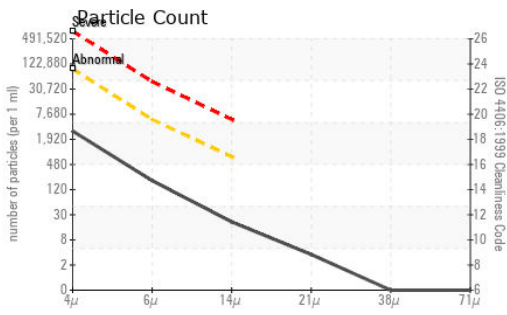
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	5	3	5
Potassium	ppm	ASTM D5185m	>20	4	4	4
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	2648	6908	5057
Particles >6µm		ASTM D7647	>5000	174	135	97
Particles >14µm		ASTM D7647	>640	18	7	11
Particles >21µm		ASTM D7647	>160	3	1	4
Particles >38µm		ASTM D7647	>40	0	0	1
Particles >71µm		ASTM D7647	>10	0	0	1
Oil Cleanliness		ISO 4406 (c)	>23/19/16	19/15/11	20/14/10	20/14/11
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	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	4	3	6
Boron	ppm	ASTM D5185m		3	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	<1	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		10	2	3
Calcium	ppm	ASTM D5185m	87	118	93	108
Phosphorus	ppm	ASTM D5185m	727	672	655	720
Zinc	ppm	ASTM D5185m	900	900	807	968
Sulfur	ppm	ASTM D5185m	1500	2161	1818	1960
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.67	0.68	0.65
Visc @ 40°C	cSt	ASTM D445	65	57.6	57.7	57.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0221931

Lab Number : 06224984

Unique Number : 11103181

Test Package : CONST (Additional Tests: PQ)

Received : 01 Jul 2024

Tested : 02 Jul 2024

Diagnosed : 03 Jul 2024 - Don Baldridge

JRE - GARNER

4161 AUBURN CHURCH RD

GARNER, NC

US 27529

Contact: RALEIGH SHOP

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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)