



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 524K 1D524KZLGF677669
Component
Hydraulic System
Fluid
{not provided} (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0220254	JR0189373	JR0161872
Sample Date		Client Info		18 Jun 2024	08 Nov 2023	27 Apr 2023
Machine Age	hrs	Client Info		5965	5448	5024
Oil Age	hrs	Client Info		4500	4407	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184	>50	13	16	13
Iron	ppm	ASTM D5185m	>71	6	2	2
Chromium	ppm	ASTM D5185m	>11	1	0	0
Nickel	ppm	ASTM D5185m	>6	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>11	3	<1	0
Lead	ppm	ASTM D5185m	>13	<1	0	1
Copper	ppm	ASTM D5185m	>21	2	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

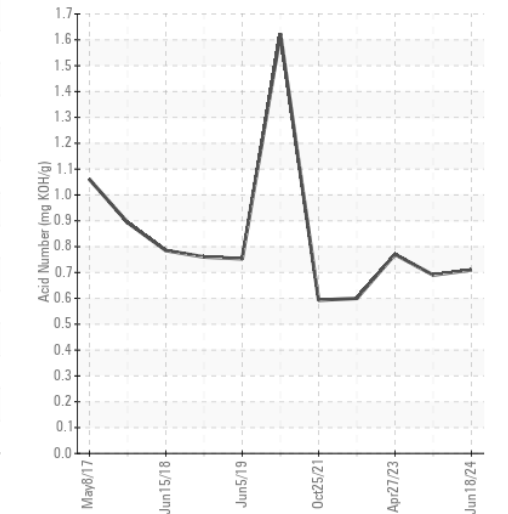
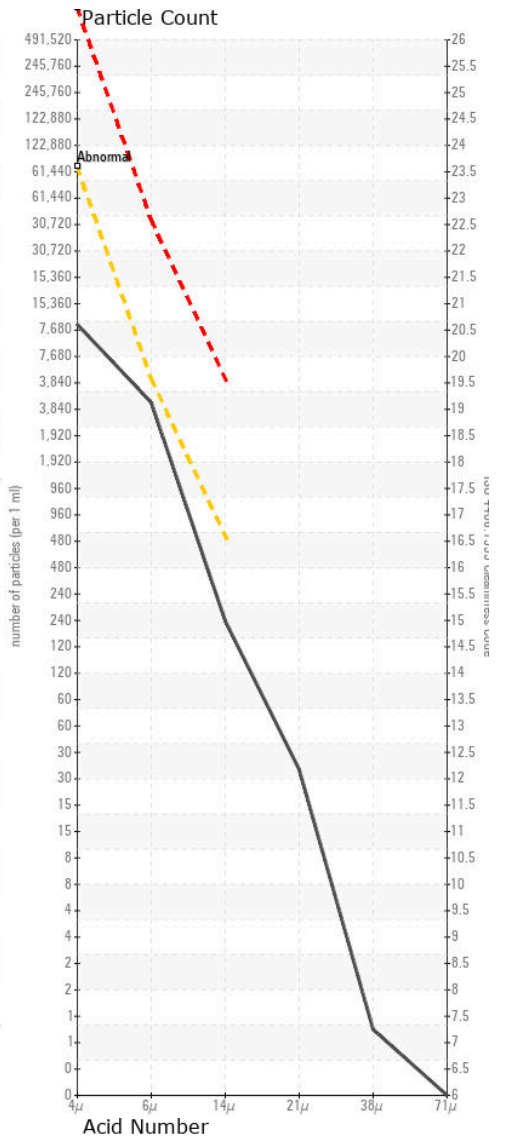
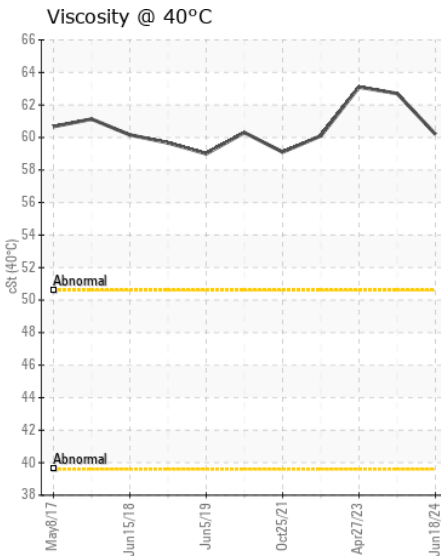
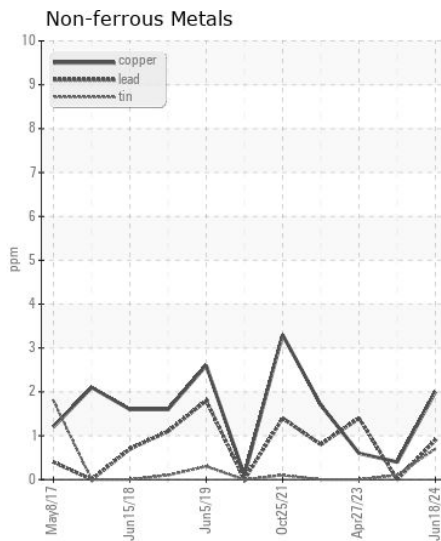
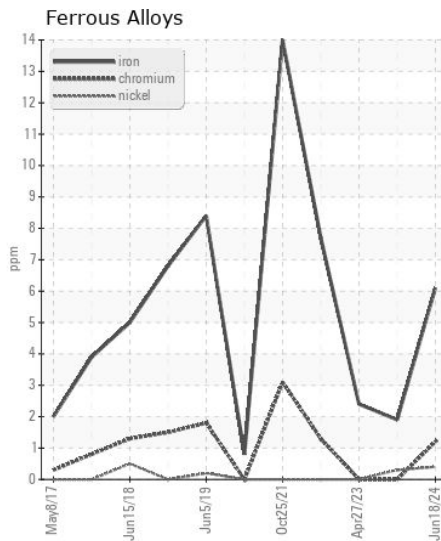
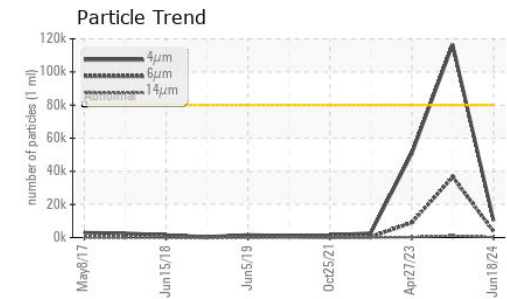
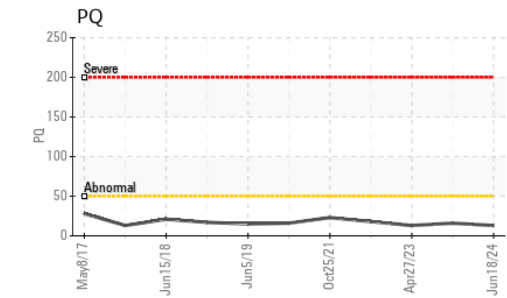
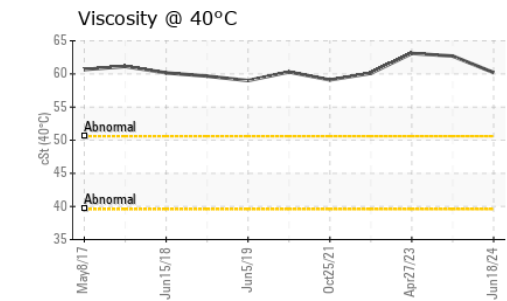
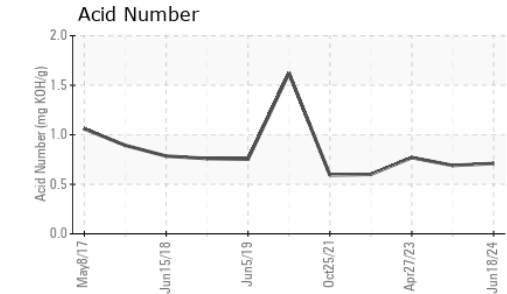
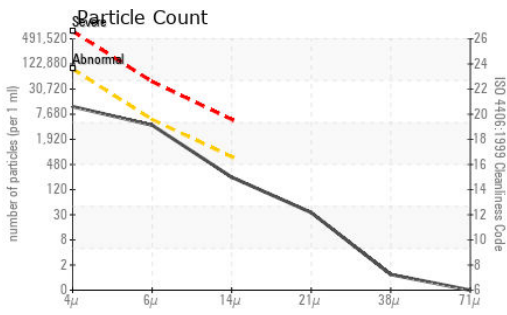
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>24	5	2	<1
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	10156	● 116435	● 50627
Particles >6µm		ASTM D7647	>5000	3657	▲ 36589	● 8999
Particles >14µm		ASTM D7647	>640	210	● 1152	211
Particles >21µm		ASTM D7647	>160	30	170	25
Particles >38µm		ASTM D7647	>40	1	3	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	21/19/15	▲ 24/22/17	● 23/20/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	<1	<1	0
Boron	ppm	ASTM D5185m		1	3	4
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		2	3	6
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		8	15	21
Calcium	ppm	ASTM D5185m		297	116	227
Phosphorus	ppm	ASTM D5185m		759	681	649
Zinc	ppm	ASTM D5185m		918	881	861
Sulfur	ppm	ASTM D5185m		1914	1689	1638
Acid Number (AN)	mg KOH/g	ASTM D8045		0.71	0.69	0.77
Visc @ 40°C	cSt	ASTM D445		60.2	62.7	63.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0220254 **Received** : 21 Jun 2024
Lab Number : 06216765 **Tested** : 24 Jun 2024
Unique Number : 11089629 **Diagnosed** : 24 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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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)