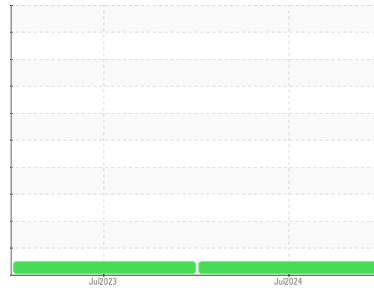


OIL ANALYSIS REPORT



Machine Id
JOHN DEERE 700K 6X45 (S/N 1T0700KXTKF364911)
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- QTS)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			JR0197135	JR0141072	---
Sample Date	Client Info			12 Jul 2024	06 Jul 2023	---
Machine Age	hrs	Client Info		518	405	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			Not Chngd	Not Chngd	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.075	NEG	NEG	---

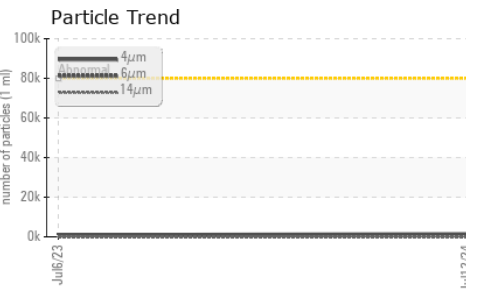
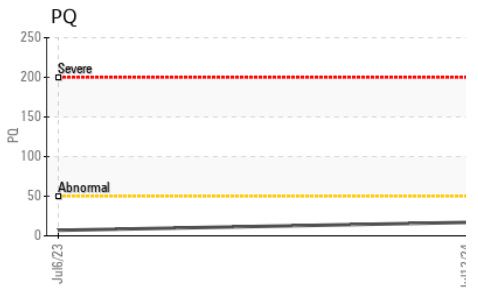
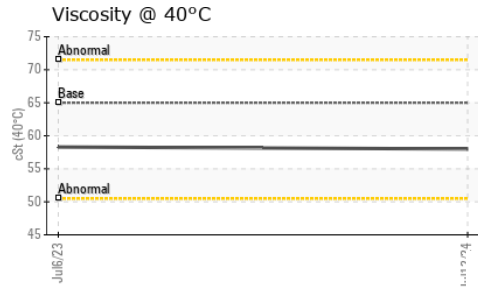
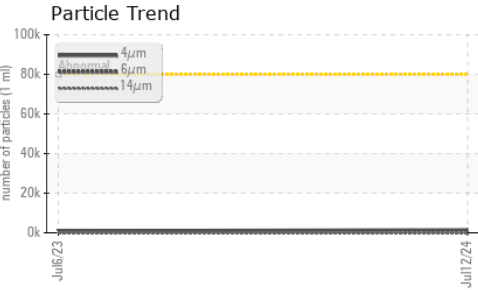
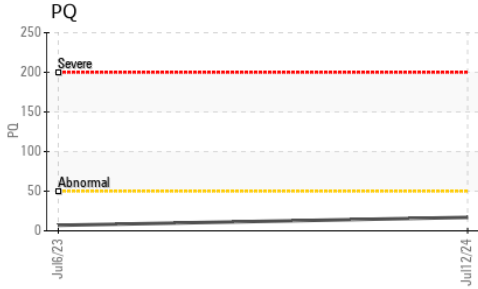
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	17	7	---
Iron	ppm	ASTM D5185m	>23	1	1	---
Chromium	ppm	ASTM D5185m	>9	0	0	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>9	<1	<1	---
Lead	ppm	ASTM D5185m	>28	<1	1	---
Copper	ppm	ASTM D5185m	>51	2	2	---
Tin	ppm	ASTM D5185m	>5	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	<1	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m		6	3	---
Calcium	ppm	ASTM D5185m	87	207	231	---
Phosphorus	ppm	ASTM D5185m	727	643	593	---
Zinc	ppm	ASTM D5185m	900	817	868	---
Sulfur	ppm	ASTM D5185m	1500	1981	2161	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>31	3	2	---
Sodium	ppm	ASTM D5185m	>21	2	0	---
Potassium	ppm	ASTM D5185m	>20	1	3	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	1508	1009	---
Particles >6µm		ASTM D7647	>20000	81	74	---
Particles >14µm		ASTM D7647	>640	8	16	---
Particles >21µm		ASTM D7647	>160	2	4	---
Particles >38µm		ASTM D7647	>40	0	0	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	18/14/10	17/13/11	---

OIL ANALYSIS REPORT

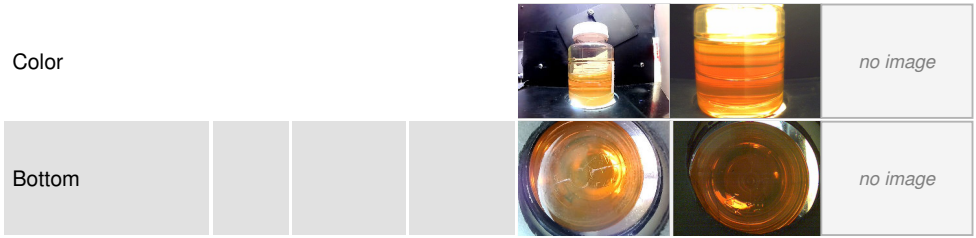


FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.72	0.72	---

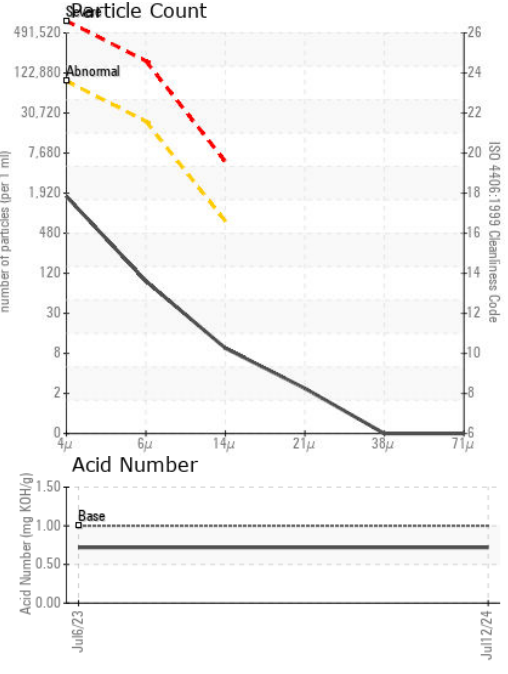
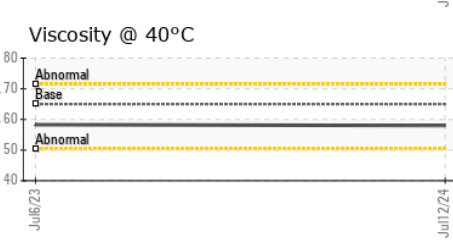
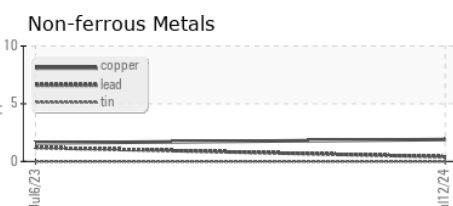
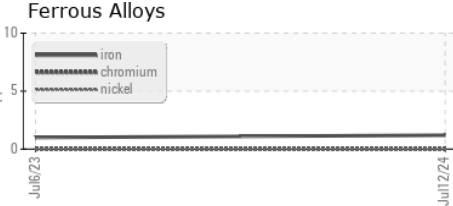
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 65	58.0	58.3	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0197135 **Received** : 16 Jul 2024
Lab Number : **06237664** **Tested** : 17 Jul 2024
Unique Number : 11126498 **Diagnosed** : 17 Jul 2024 - Wes Davis
Test Package : MOBCE (Additional Tests: PQ)

NC FOREST SERVICE
 221 AIRPORT RD
 FAYETTEVILLE, NC
 US 28306
 Contact: WALTER CAPPS
 WATER.CAPPS@NCAGR.GOV

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)