



**James River
Equipment**

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 550K-II 1T0550KKTKF354456
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218887	JR0185066	JR0185198
Sample Date		Client Info		03 Jul 2024	24 Jan 2024	23 Aug 2023
Machine Age	hrs	Client Info		3314	3014	2787
Oil Age	hrs	Client Info		1441	1141	914
Filter Age	hrs	Client Info		1441	1141	914
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	11	14	16
Iron	ppm	ASTM D5185m	>23	3	4	5
Chromium	ppm	ASTM D5185m	>9	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	<1	2
Lead	ppm	ASTM D5185m	>28	0	0	<1
Copper	ppm	ASTM D5185m	>51	5	4	7
Tin	ppm	ASTM D5185m	>5	0	<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

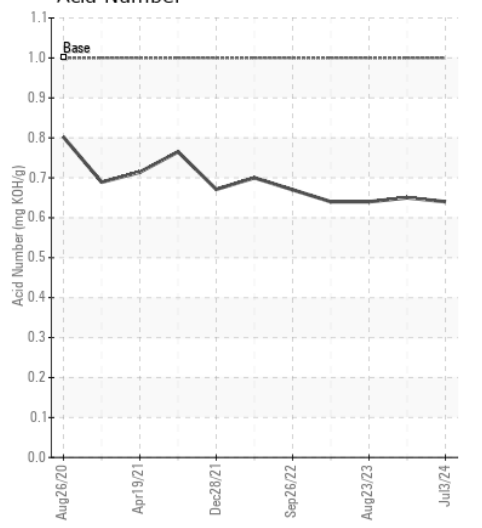
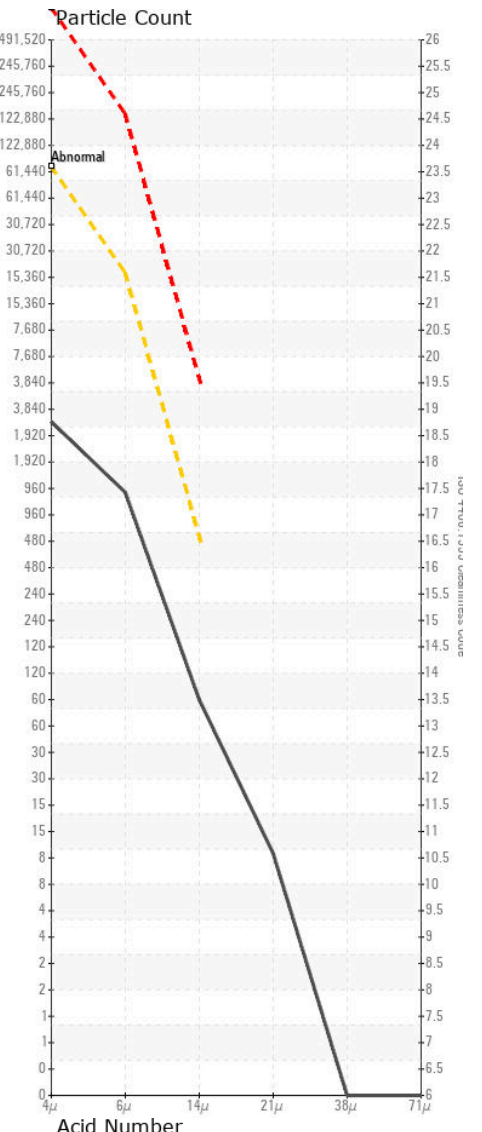
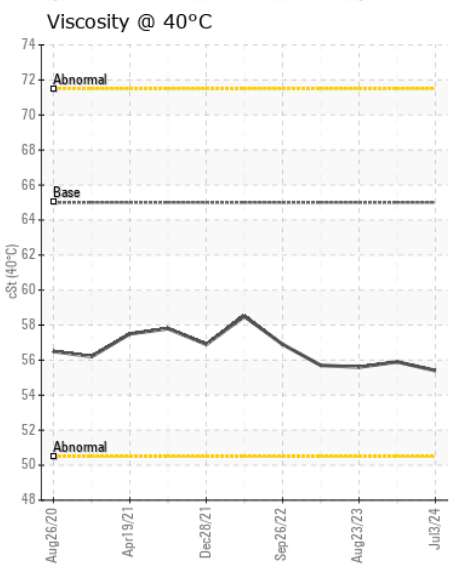
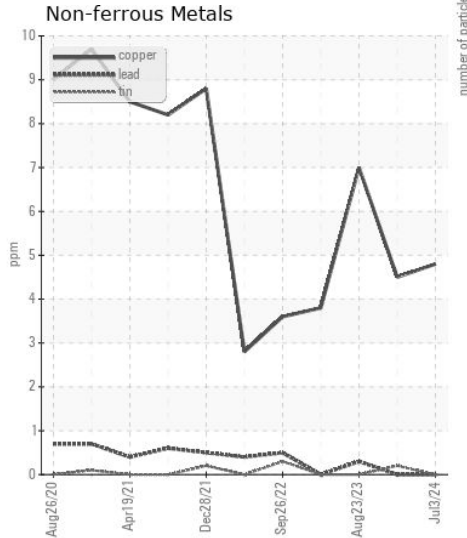
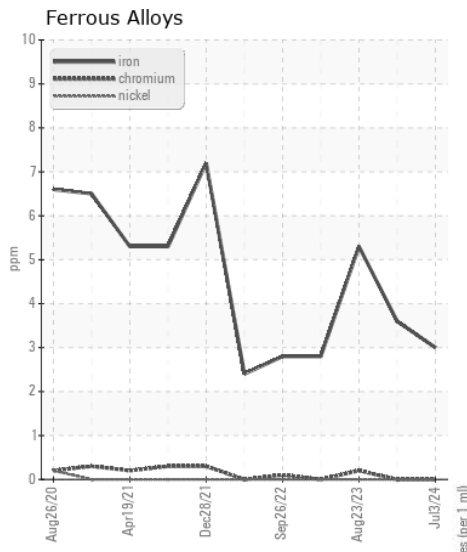
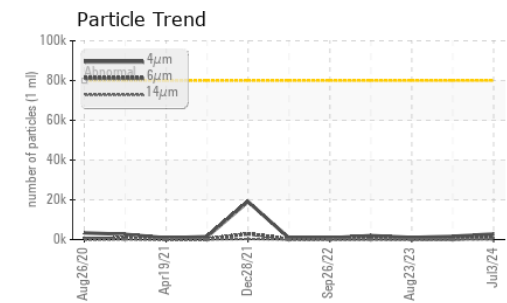
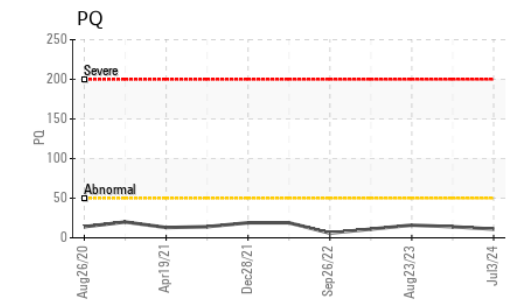
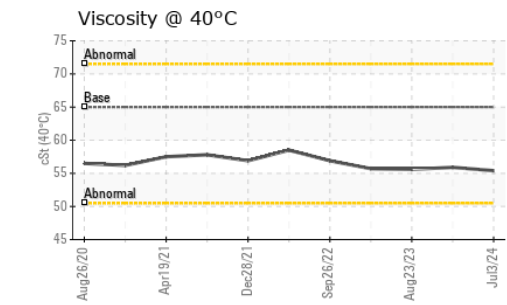
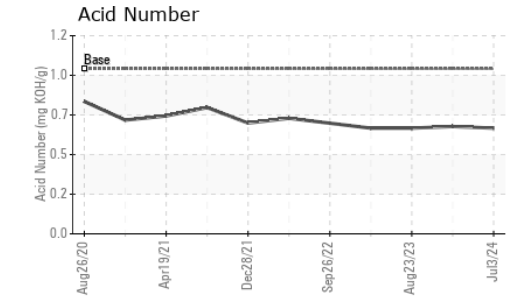
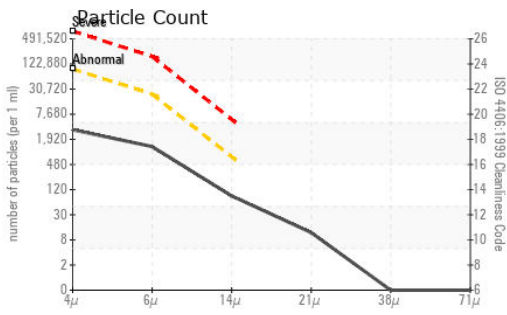
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>31	<1	1	1
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	2846	1623	1064
Particles >6µm		ASTM D7647	>20000	1129	272	183
Particles >14µm		ASTM D7647	>640	75	12	25
Particles >21µm		ASTM D7647	>160	10	3	8
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	19/17/13	18/15/11	17/15/12
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	<1	0	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		1	0	2
Calcium	ppm	ASTM D5185m	87	96	94	135
Phosphorus	ppm	ASTM D5185m	727	570	655	790
Zinc	ppm	ASTM D5185m	900	704	824	1057
Sulfur	ppm	ASTM D5185m	1500	1527	1605	2286
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.64	0.65	0.64
Visc @ 40°C	cSt	ASTM D445	65	55.4	55.9	55.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218887 **Received** : 08 Jul 2024
Lab Number : 06230068 **Tested** : 09 Jul 2024
Unique Number : 11113561 **Diagnosed** : 09 Jul 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

TENNOCA CONSTRUCTION
 PO BOX 2379
 CANDLER, NC
 US 28715
 Contact: MARK ROSS
 mark@tennoca.com
 T: (828)665-8331
 F:

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)