



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 650K 1T0650KKPHF306809
 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		JR0218469	JR0190257	JR0125603
Sample Date		Client Info		09 Jul 2024	25 Oct 2023	05 Jul 2022
Machine Age	hrs	Client Info		2968	2413	1932
Oil Age	hrs	Client Info		2487	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	Not Chngd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	15	16	20
Iron	ppm	ASTM D5185m	>23	4	5	10
Chromium	ppm	ASTM D5185m	>9	<1	<1	2
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	0	1	2
Lead	ppm	ASTM D5185m	>28	0	1	2
Copper	ppm	ASTM D5185m	>51	7	9	22
Tin	ppm	ASTM D5185m	>5	0	0	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

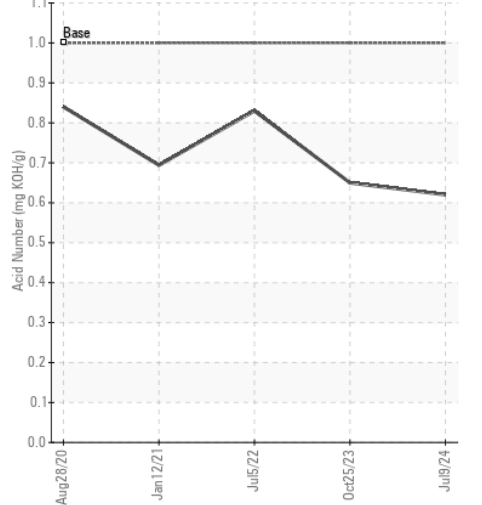
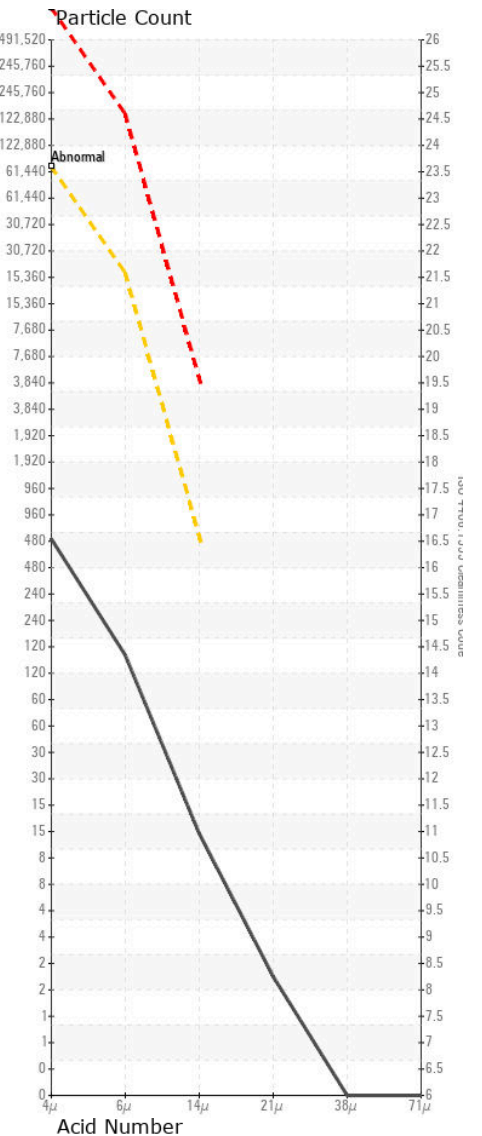
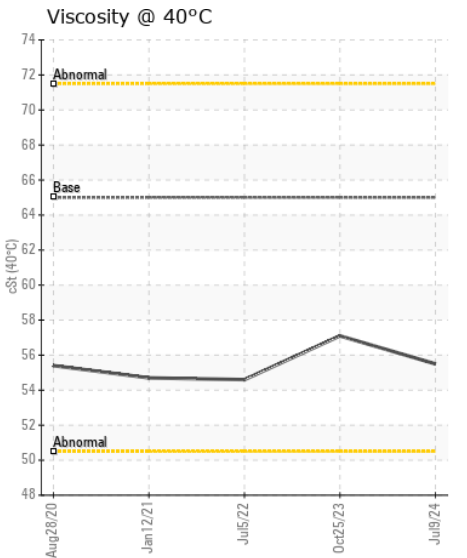
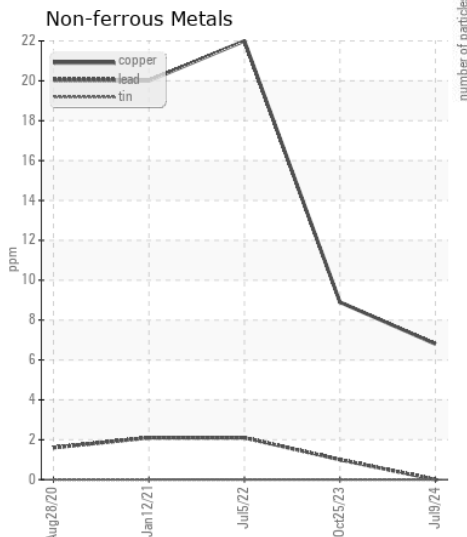
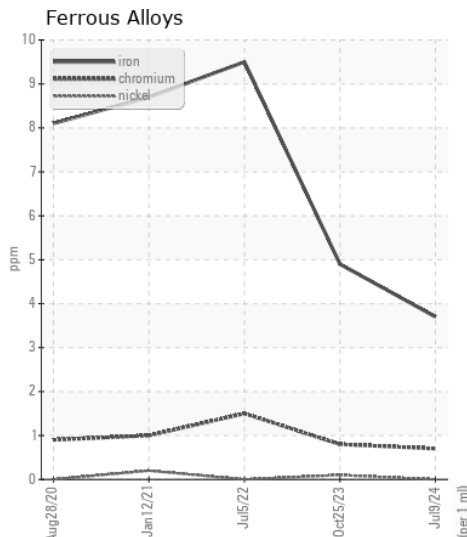
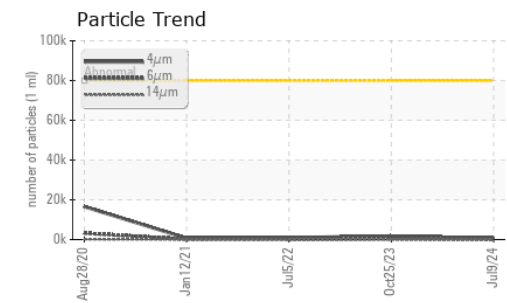
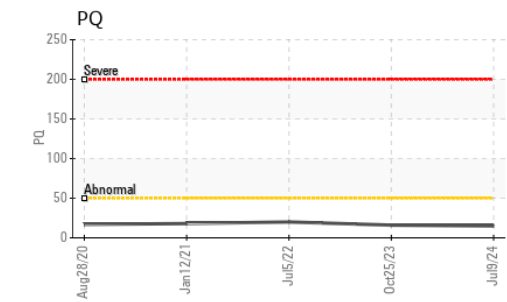
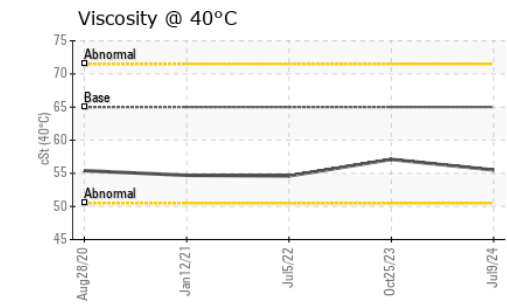
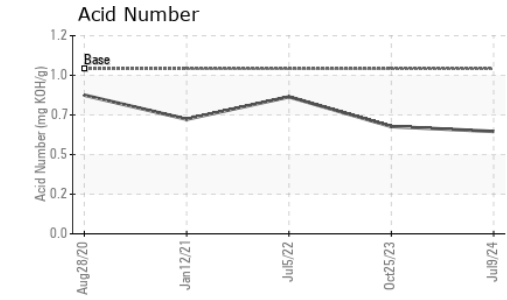
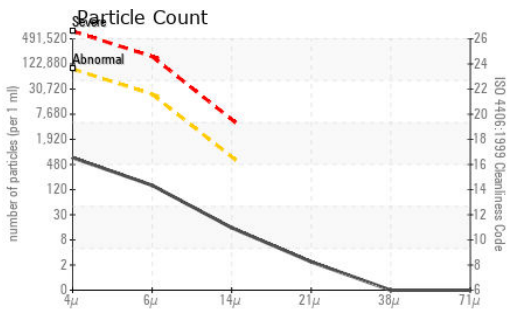
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>31	1	2	3
Potassium	ppm	ASTM D5185m	>20	0	2	2
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	614	1768	937
Particles >6µm		ASTM D7647	>20000	134	434	166
Particles >14µm		ASTM D7647	>640	13	35	25
Particles >21µm		ASTM D7647	>160	2	10	8
Particles >38µm		ASTM D7647	>40	0	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	16/14/11	18/16/12	17/15/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	<1
Boron	ppm	ASTM D5185m		0	0	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		2	1	<1
Calcium	ppm	ASTM D5185m	87	87	83	91
Phosphorus	ppm	ASTM D5185m	727	712	664	610
Zinc	ppm	ASTM D5185m	900	906	834	824
Sulfur	ppm	ASTM D5185m	1500	2040	1632	1955
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.62	0.65	0.83
Visc @ 40°C	cSt	ASTM D445	65	55.5	57.1	54.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218469 **Received** : 11 Jul 2024
Lab Number : 06233180 **Tested** : 12 Jul 2024
Unique Number : 11116673 **Diagnosed** : 12 Jul 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

R.J. SMITH
 1711 REYMET RD
 RICHMOND, VA
 US 23237
 Contact: KIRBY MAITLAND

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)

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