

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

JOHN DEERE 700K 1T0700KXHKF367447

Hydraulic System

JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.



All component wear rates are normal.

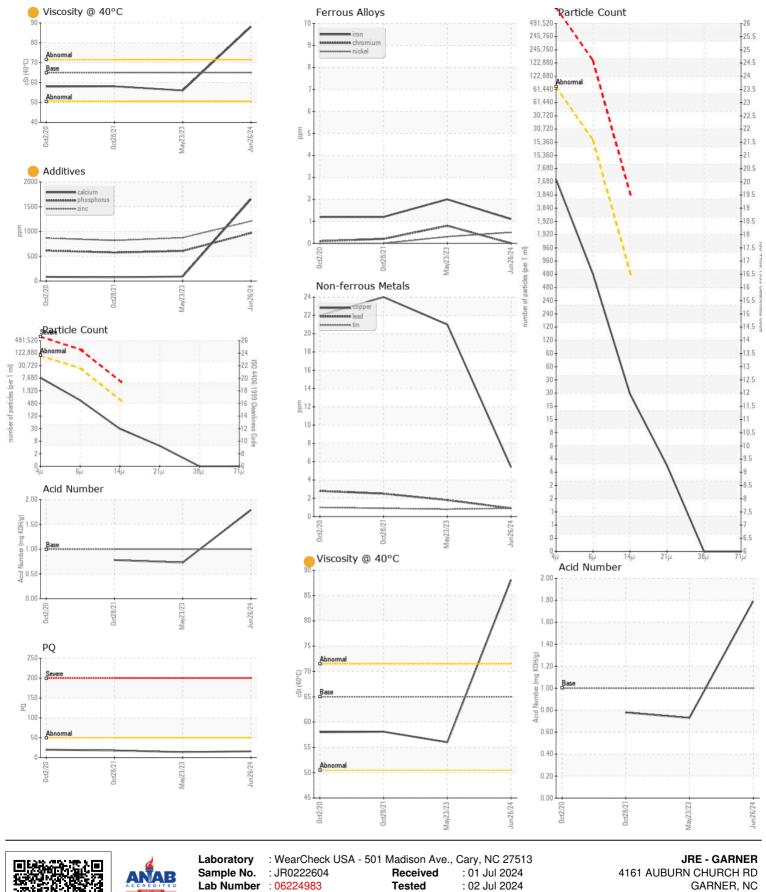
CONTAMINATION

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

FLUID CONDITION

The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0222604	JR0167961	JR0108236
Sample Date		Client Info		26 Jun 2024	23 May 2023	28 Oct 2021
Machine Age	hrs	Client Info		4683	3166	1030
Oil Age	hrs	Client Info		4683	3166	1030
Filter Age	hrs	Client Info		0	0	1030
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	NORMAL
PQ		ASTM D8184	>50	16	14	18
Iron	ppm	ASTM D5185m	>23	1	2	1
Chromium	ppm	ASTM D5185m	>9	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	. 0	<1	0	<1
Aluminum	ppm	ASTM D5185m	>9	4	3	1
Lead	ppm	ASTM D5185m	>28	<1	_	
Copper	ppm	ASTM D5185m	>51	5	21	24
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium White Metal	ppm	ASTM D5185m *Visual	NONE	<1 NONE	0 NONE	0 NONE
Yellow Metal	scalar scalar	*Visual	NONE	NONE	NONE	NONE
	scalar	visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>31	8	5	2
Potassium	ppm	ASTM D5185m	>20	3	3	1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	7145	1269	1418
Particles >6µm		ASTM D7647	>20000	597	225	223
Particles >14µm		ASTM D7647	>640	26	18	26
Particles >21µm		ASTM D7647	>160	4	5	4
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/16/12	17/15/11	18/15/12
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
Sodium	0000		. 01	0	0	
Sodium	ppm	ASTM D5185m	>21	0	2	1
Boron	ppm	ASTM D5185m		61	0	0
Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m		0	0	0<1
Manganese	ppm	ASTM D5185m		02	<1	< 1
Manganese	ppm ppm	ASTM D5185m		<1 22	<1	0
Calcium		ASTM D5185m	87	22 1652	91	76
Phosphorus	ppm	ASTM D5185m	727	968	607	575
Zinc	ppm ppm	ASTM D5185m	900	1208	874	818
Sulfur	ppm	ASTM D5185m	1500	4110	1779	1441
Acid Number (AN)	mg KOH/g	ASTM D3183III ASTM D8045	1.0	1.79	0.73	0.779
Visc @ 40°C	cSt	ASTM D0045 ASTM D445	65	88.1	56.0	58.1
	001	A0 HVI D440	05	00.1	50.0	50.1



 Unique Number
 : 11103180
 Diagnosed
 : 03 Jul 2024 - Don Baldridge
 US 27529

 Centificate 12367
 Test Package
 : CONST (Additional Tests: PQ)
 Contact: RALEIGH SHOP

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 seanbets@jamesriverequipment.com,catherine.anastasio@wearcheck.com

 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T: (919)614-2260

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (919)779-5432

Submitted By: JOHN GUASCHINO Page 2 of 2