



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W48500]
 Machine Id
JOHN DEERE 700K 1T0700KXLJF344425
 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		JR0200149	JR0123881	JR0011585
Sample Date		Client Info		16 Jan 2024	16 May 2022	31 Jul 2019
Machine Age	hrs	Client Info		1433	986	486
Oil Age	hrs	Client Info		0	986	486
Filter Age	hrs	Client Info		0	986	486
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	10	19	17
Iron	ppm	ASTM D5185m	>23	5	4	2
Chromium	ppm	ASTM D5185m	>9	4	3	1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	1	<1
Lead	ppm	ASTM D5185m	>28	1	1	0
Copper	ppm	ASTM D5185m	>51	9	6	2
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

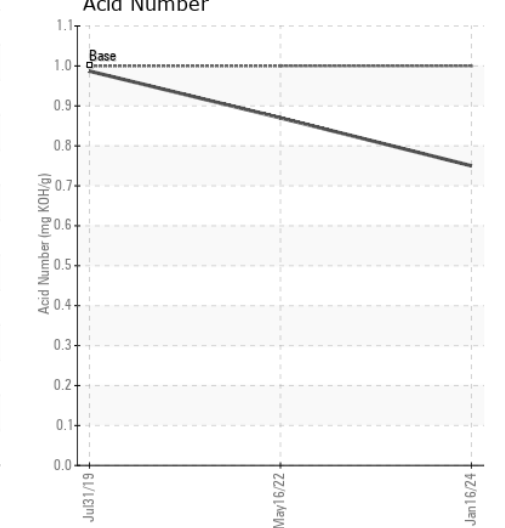
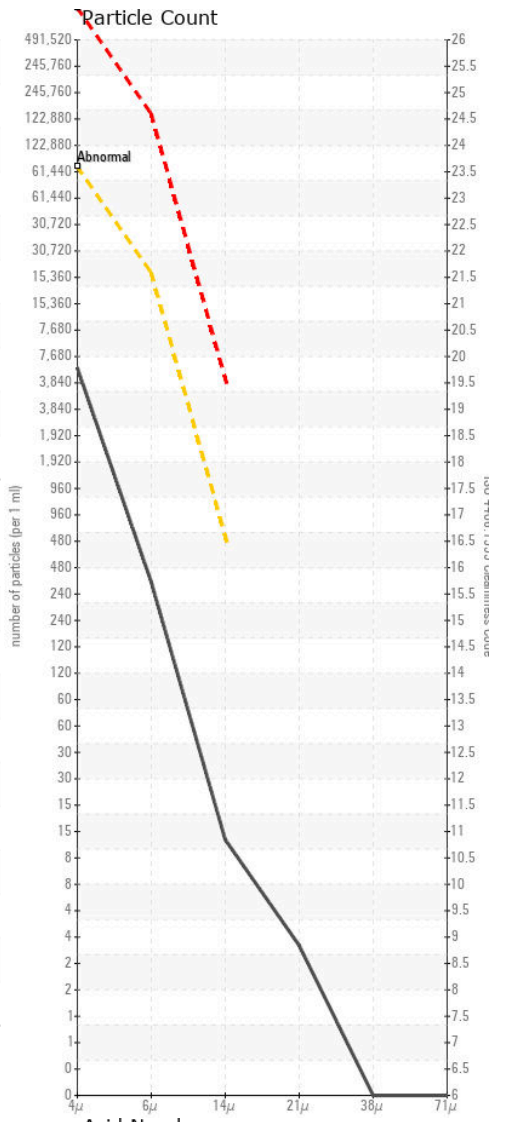
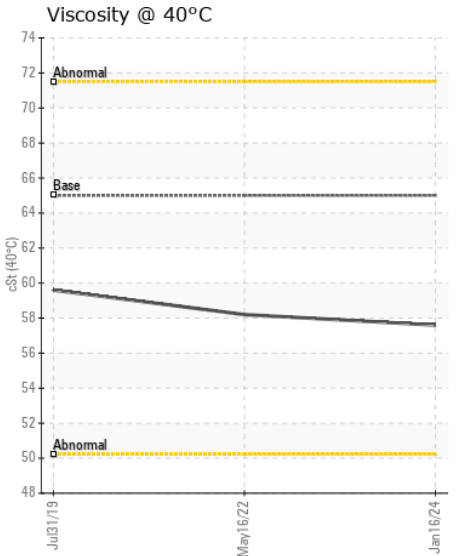
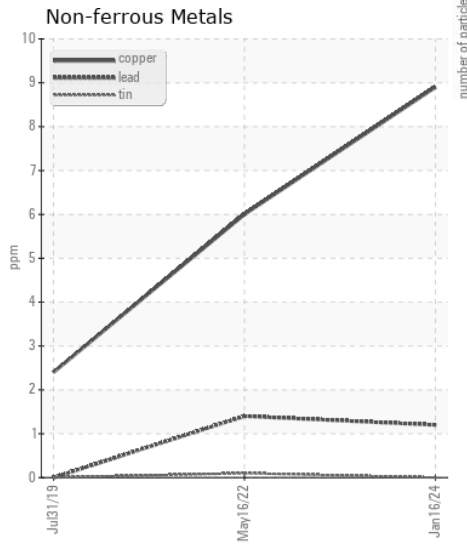
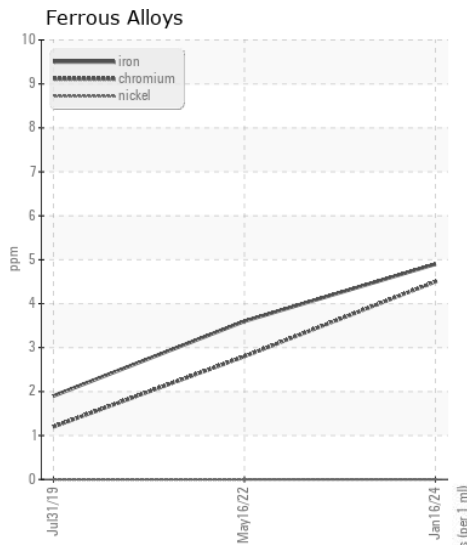
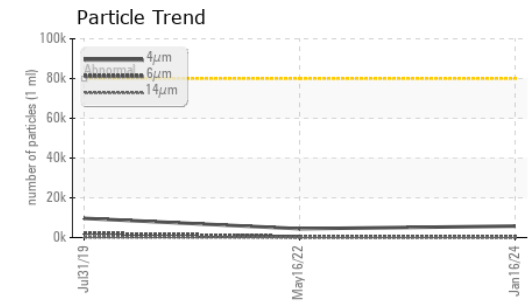
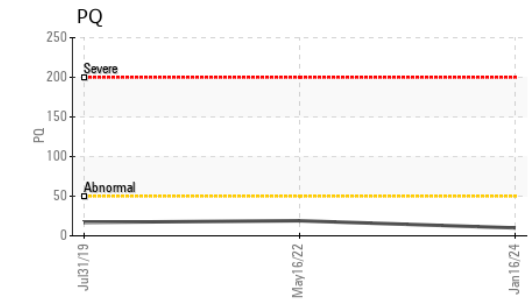
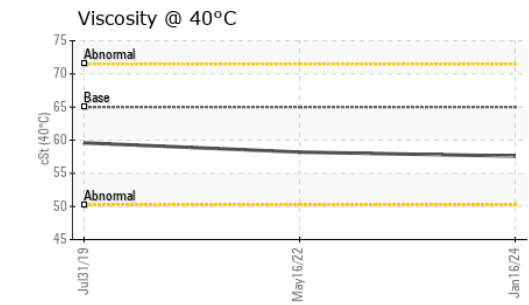
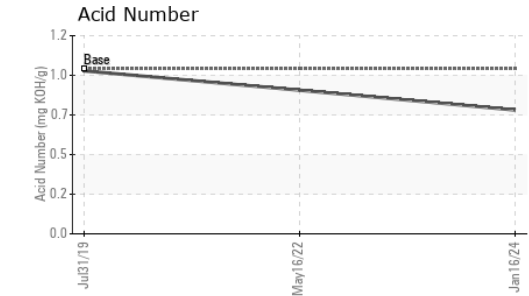
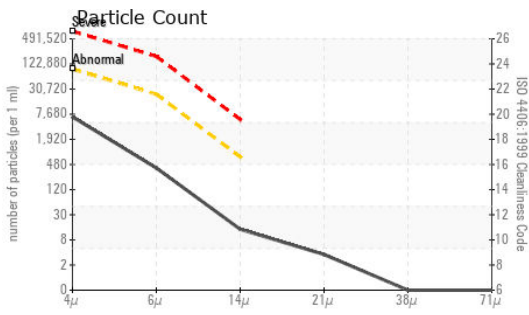
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>31	4	3	3
Potassium	ppm	ASTM D5185m	>20	4	4	18
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	5763	4460	9690
Particles >6µm		ASTM D7647	>20000	349	393	2075
Particles >14µm		ASTM D7647	>640	12	27	97
Particles >21µm		ASTM D7647	>160	3	6	15
Particles >38µm		ASTM D7647	>40	0	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/16/11	19/16/12	20/18/14
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	1
Boron	ppm	ASTM D5185m		0	<1	<1
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		2	2	1
Calcium	ppm	ASTM D5185m	87	90	80	86
Phosphorus	ppm	ASTM D5185m	727	612	594	601
Zinc	ppm	ASTM D5185m	900	869	885	814
Sulfur	ppm	ASTM D5185m	1500	1678	1370	1514
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.75	0.87	0.987
Visc @ 40°C	cSt	ASTM D445	65	57.6	58.2	59.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200149 **Received** : 17 Jan 2024
Lab Number : 06062546 **Diagnosed** : 18 Jan 2024
Unique Number : 10833928 **Diagnostician** : Wes Davis
Test Package : CONST (Additional Tests: PQ)

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)

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005
 Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com
 T: (804)798-6001
 F: (804)798-0292