



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[16W16023]

Machine Id
JOHN DEERE 750K C9010101 (S/N 1T0750KXLEE264667)

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (28 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 16W16023)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196407	JR0168158	JR0145470
Sample Date		Client Info		11 Apr 2024	18 Apr 2023	16 Nov 2022
Machine Age	hrs	Client Info		10979	9515	9003
Oil Age	hrs	Client Info		1976	2000	0
Filter Age	hrs	Client Info		1976	2000	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	8	15	16
Chromium	ppm	ASTM D5185m	>10	1	2	2
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	6	11
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	1	4	9
Tin	ppm	ASTM D5185m	>10	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

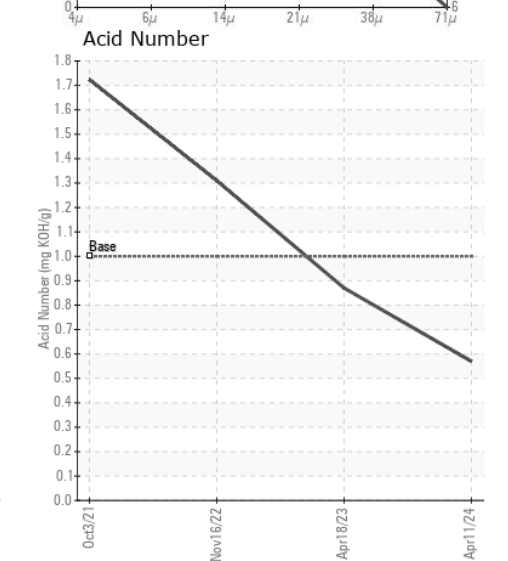
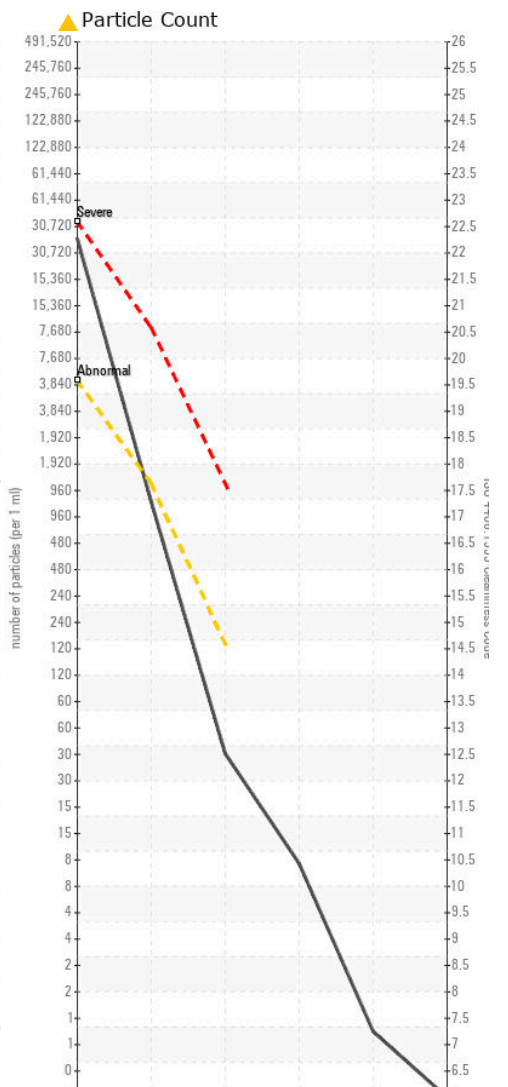
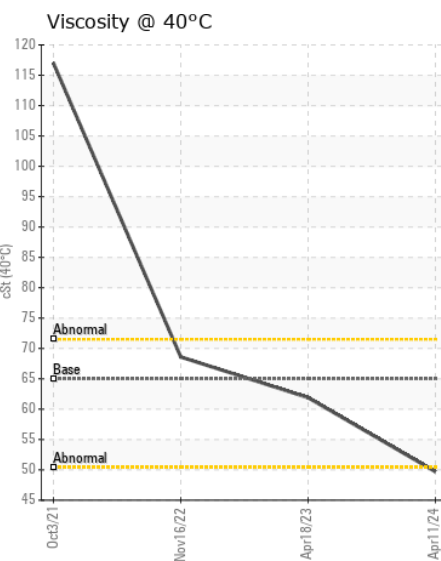
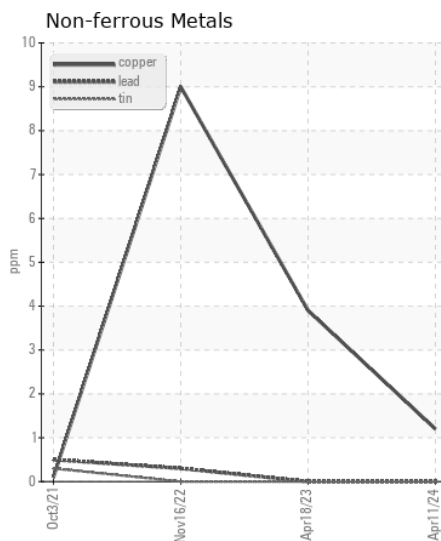
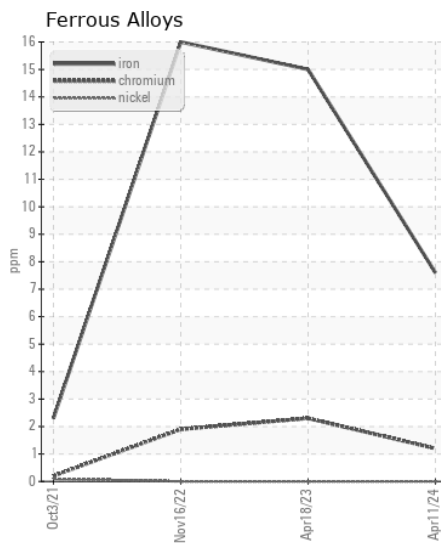
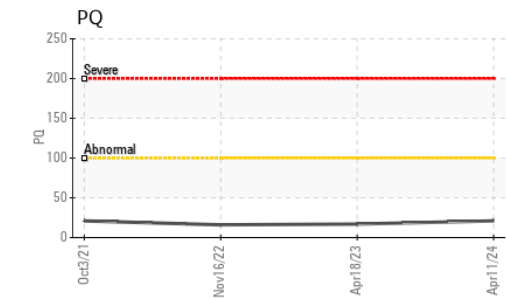
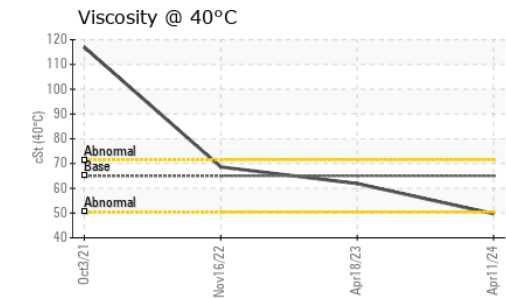
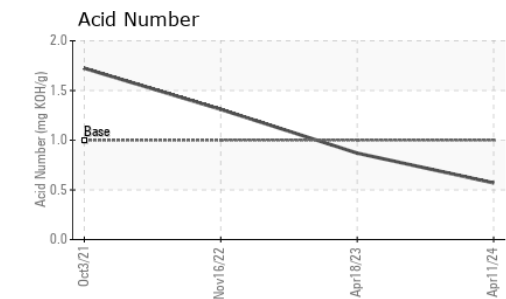
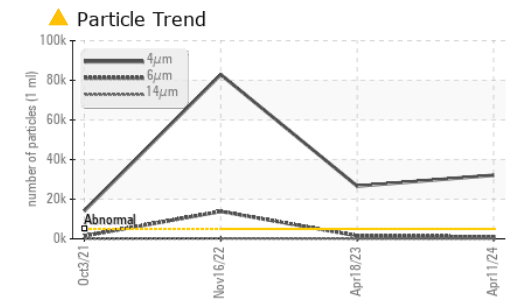
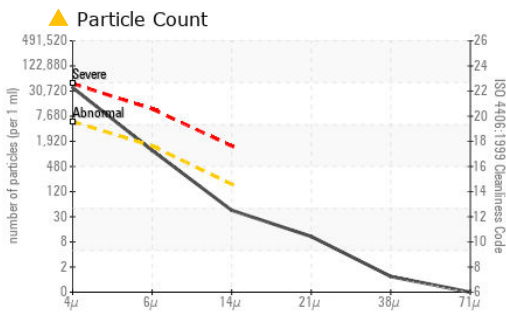
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	4	8	18
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	32095	26600	82894
Particles >6µm		ASTM D7647	>1300	1023	1515	13839
Particles >14µm		ASTM D7647	>160	38	46	169
Particles >21µm		ASTM D7647	>40	9	8	22
Particles >38µm		ASTM D7647	>10	1	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	22/17/12	22/18/13	24/21/15
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	>0.1	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		2	<1	1
Boron	ppm	ASTM D5185m		6	53	200
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		6	40	139
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		20	133	458
Calcium	ppm	ASTM D5185m	87	102	462	1451
Phosphorus	ppm	ASTM D5185m	727	334	694	792
Zinc	ppm	ASTM D5185m	900	398	869	887
Sulfur	ppm	ASTM D5185m	1500	960	2283	3092
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.57	0.87	1.31
Visc @ 40°C	cSt	ASTM D445	65	49.7	61.9	68.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196407 **Received** : 15 Apr 2024
Lab Number : 06149481 **Tested** : 16 Apr 2024
Unique Number : 10979559 **Diagnosed** : 17 Apr 2024 - Don Baldrige
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)

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