



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 4730 N04730X005553

Component
Hydraulic System

Fluid
JOHN DEERE HY-GARD HYD/TRANS (30 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0201598	JR0149369	JRMC368076
Sample Date		Client Info		29 Feb 2024	04 Apr 2023	21 Mar 2014
Machine Age	hrs	Client Info		0	0	1918
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changed
Filter Changed		Client Info		N/A	N/A	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	15	19	20
Chromium	ppm	ASTM D5185m	>10	1	2	2
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		<1	0	2
Aluminum	ppm	ASTM D5185m	>10	1	1	1
Lead	ppm	ASTM D5185m	>10	2	2	4
Copper	ppm	ASTM D5185m	>75	19	23	30
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

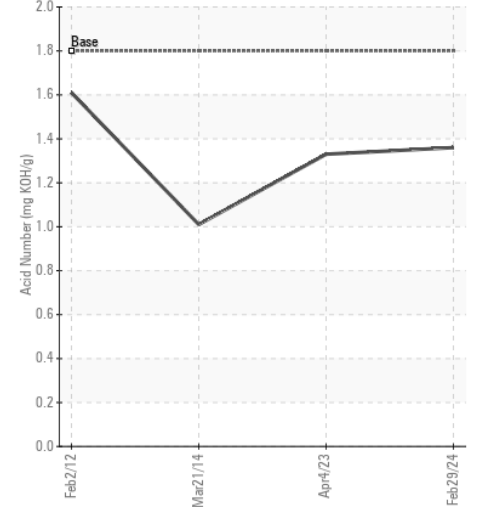
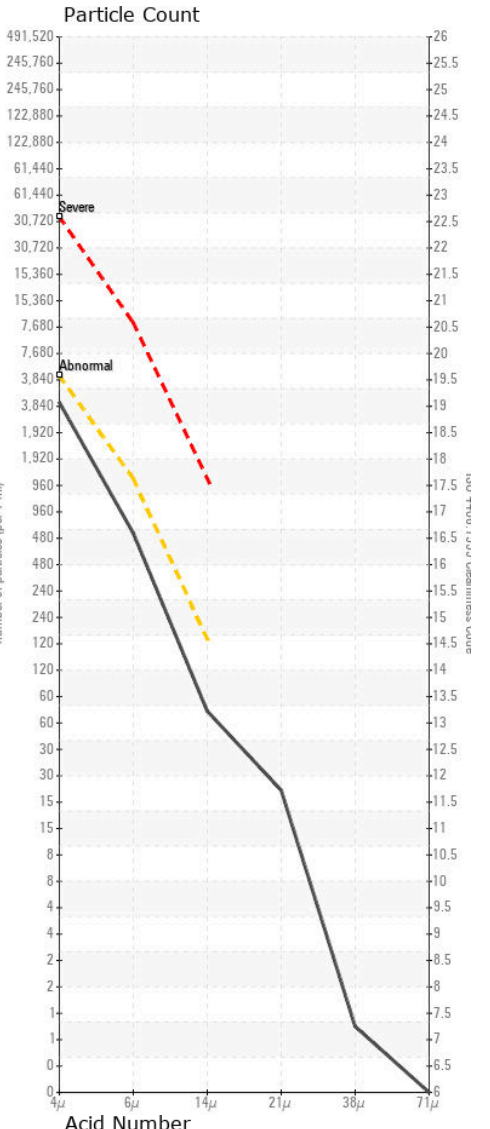
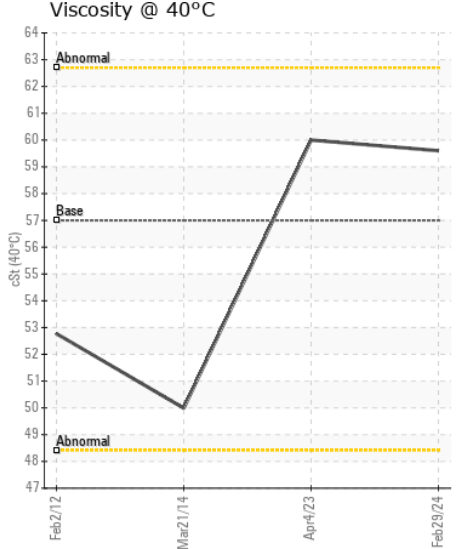
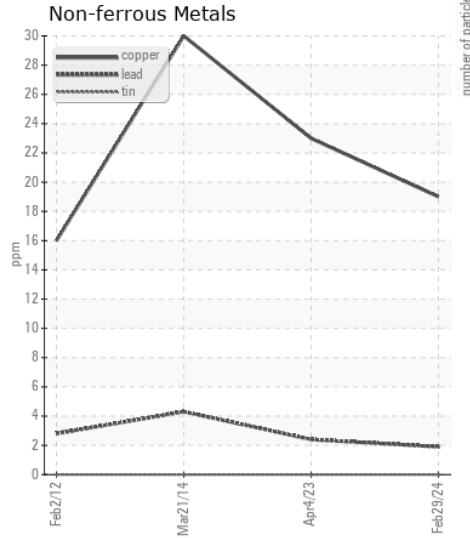
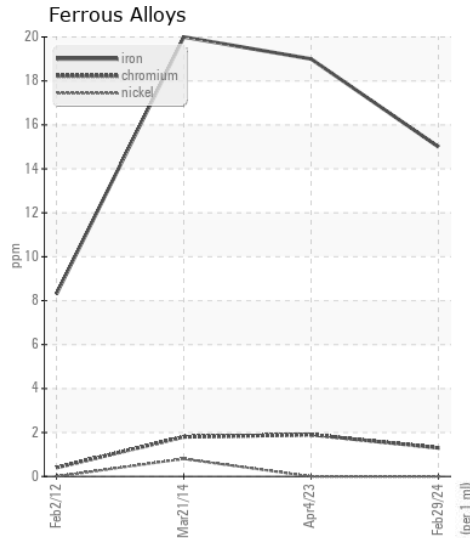
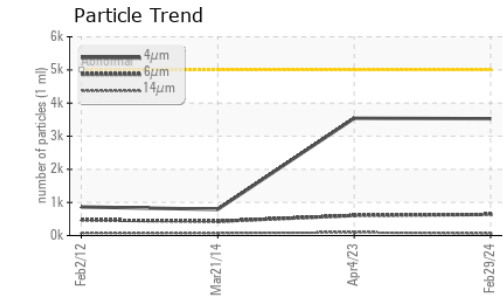
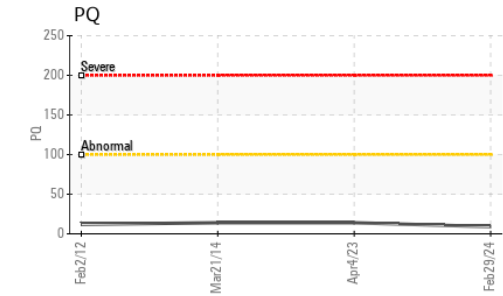
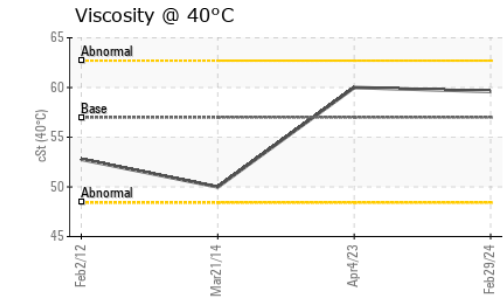
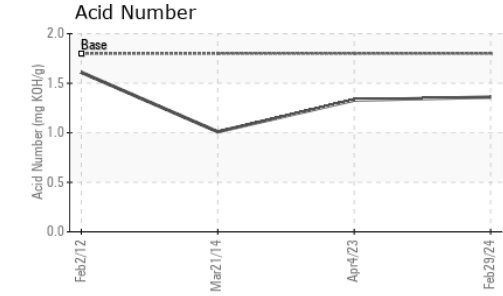
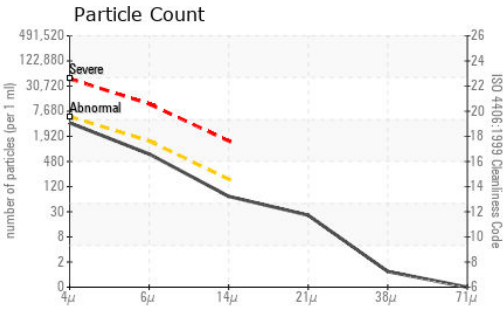
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	4	6	6
Potassium	ppm	ASTM D5185m	>20	6	9	9
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	3527	3541	792
Particles >6µm		ASTM D7647	>1300	637	607	431
Particles >14µm		ASTM D7647	>160	62	94	73
Particles >21µm		ASTM D7647	>40	22	33	24
Particles >38µm		ASTM D7647	>10	1	8	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/13	19/16/14	17/16/13
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		3	1	4
Boron	ppm	ASTM D5185m	6	119	147	30
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	82	93	20
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	341	334	283
Calcium	ppm	ASTM D5185m	3570	1659	1857	2538
Phosphorus	ppm	ASTM D5185m	1290	763	832	1031
Zinc	ppm	ASTM D5185m	1640	859	1007	1365
Sulfur	ppm	ASTM D5185m		2893	3534	3589
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.36	1.33	1.01
Visc @ 40°C	cSt	ASTM D445	57.0	59.6	60.0	49.99



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0201598 **Received** : 01 Mar 2024
Lab Number : 06105940 **Tested** : 05 Mar 2024
Unique Number : 10909437 **Diagnosed** : 05 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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 US 23888
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 F: (757)899-6464

Certificate L2367
 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)