



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[C3 FARMS AND TIMBER]

Machine Id

JOHN DEERE 848L 1DW848LBCNF714477

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		JR0164585	JR0156857	JR0145024
Sample Date		Client Info		15 Nov 2023	14 Feb 2023	31 Oct 2022
Machine Age	hrs	Client Info		2601	1075	573
Oil Age	hrs	Client Info		2601	1075	573
Filter Age	hrs	Client Info		2601	0	573
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
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	13	6	3
Chromium	ppm	ASTM D5185m	>10	4	3	2
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	2	1	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

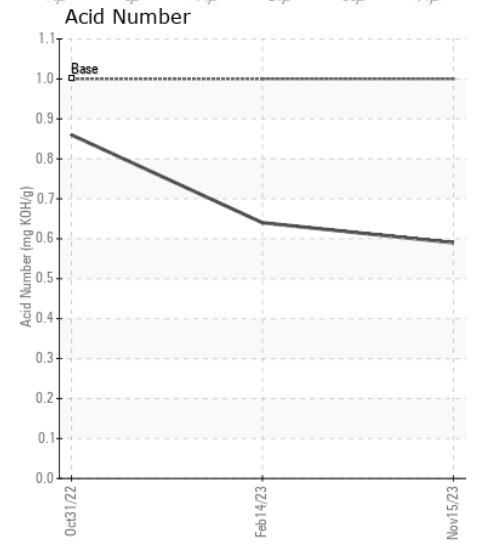
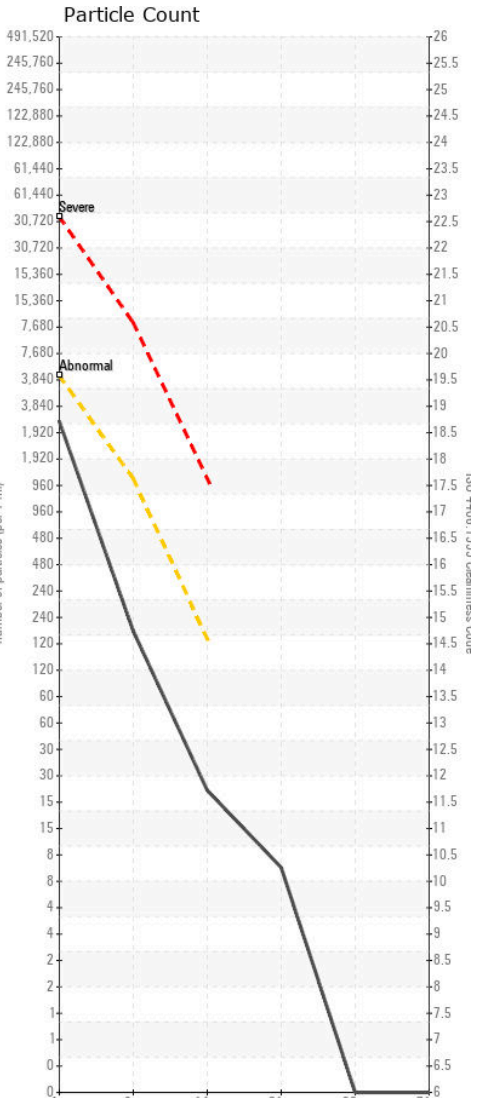
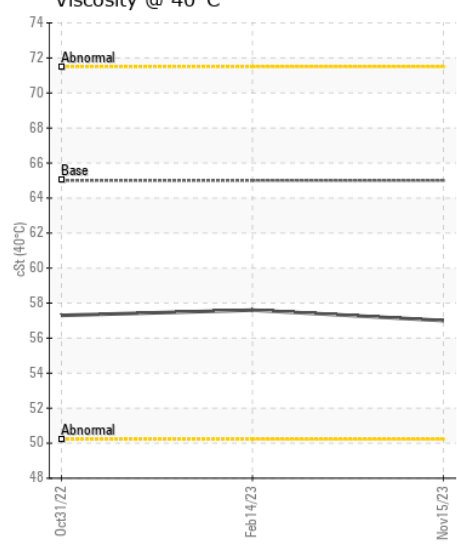
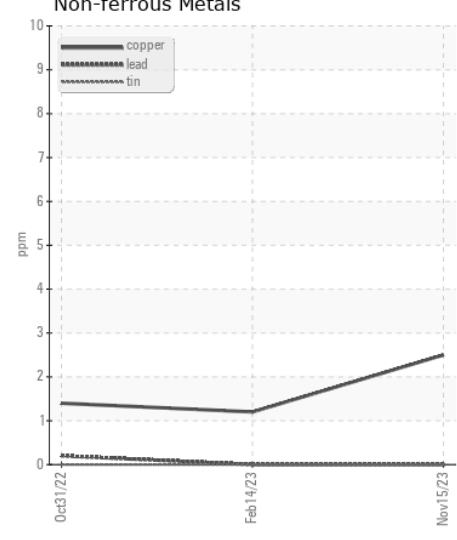
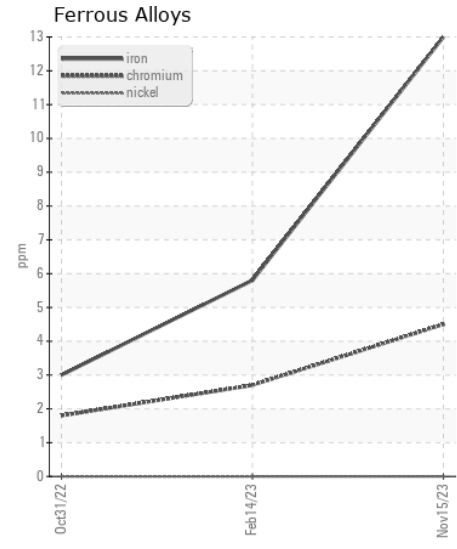
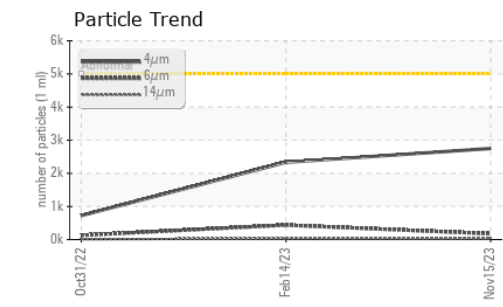
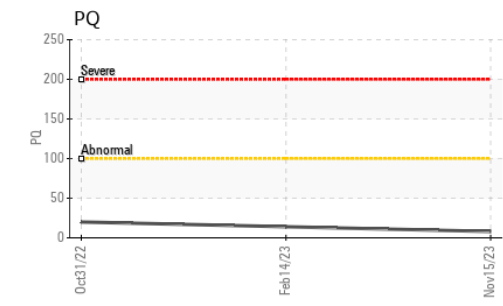
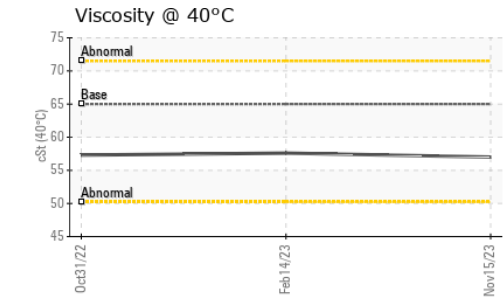
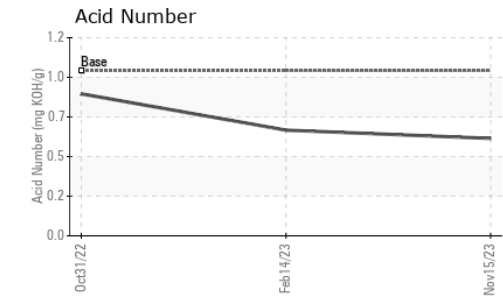
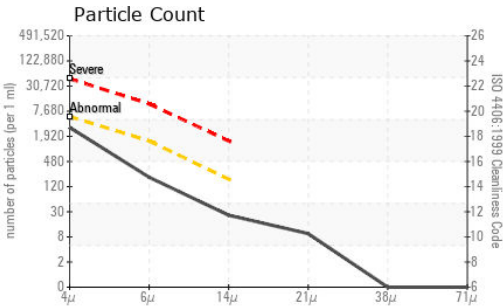
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	9	5	4
Potassium	ppm	ASTM D5185m	>20	7	6	5
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	2751	2332	724
Particles >6µm		ASTM D7647	>1300	177	438	128
Particles >14µm		ASTM D7647	>160	22	29	8
Particles >21µm		ASTM D7647	>40	8	6	3
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/15/12	18/16/12	17/14/10
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		4	2	1
Boron	ppm	ASTM D5185m		28	19	0
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		23	15	5
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		25	46	8
Calcium	ppm	ASTM D5185m	87	336	211	143
Phosphorus	ppm	ASTM D5185m	727	601	539	591
Zinc	ppm	ASTM D5185m	900	829	783	808
Sulfur	ppm	ASTM D5185m	1500	1603	1682	2004
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.59	0.64	0.86
Visc @ 40°C	cSt	ASTM D445	65	57.0	57.6	57.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0164585 **Received** : 17 Nov 2023
Lab Number : 06010690 **Tested** : 20 Nov 2023
Unique Number : 10749834 **Diagnosed** : 20 Nov 2023 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)