



WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area

[C3 FARM & TIMBER]

Machine Id

JOHN DEERE 848L 1DW848LBCNF714477

Component

Hydraulic System

Fluid

JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0208927	JR0164652	JR0164585
Sample Date		Client Info		23 May 2024	08 Mar 2024	15 Nov 2023
Machine Age	hrs	Client Info		3828	3379	2601
Oil Age	hrs	Client Info		0	0	2601
Filter Age	hrs	Client Info		0	0	2601
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	17	15	8
Chromium	ppm	ASTM D5185m	>10	16	11	13
Nickel	ppm	ASTM D5185m	>10	7	5	4
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	2	1
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>75	1	1	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

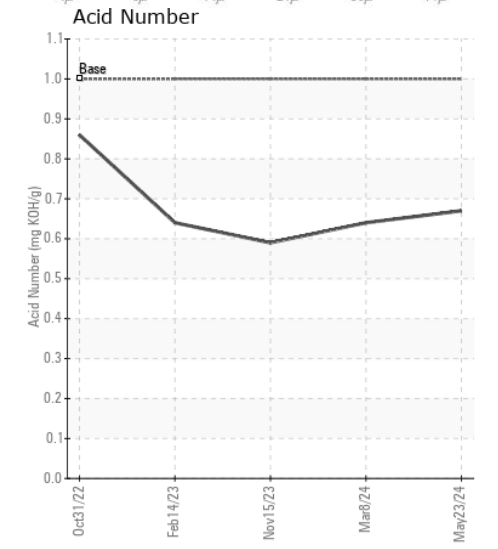
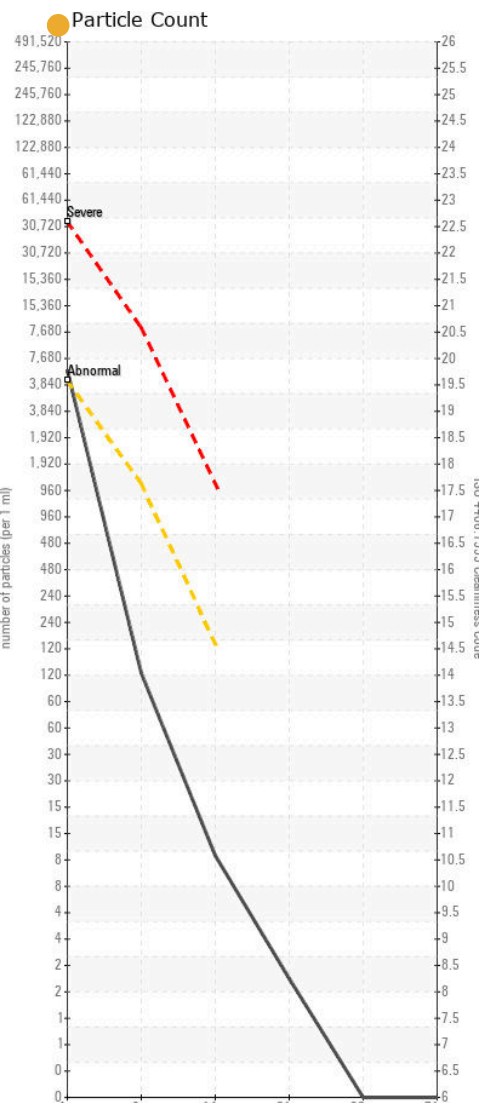
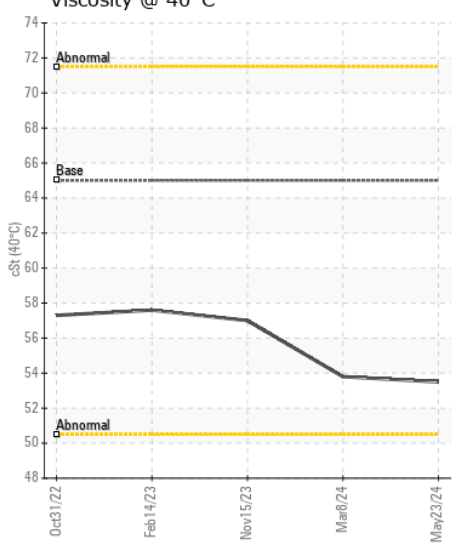
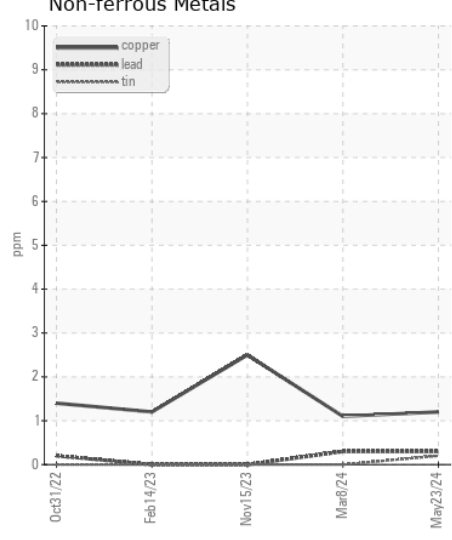
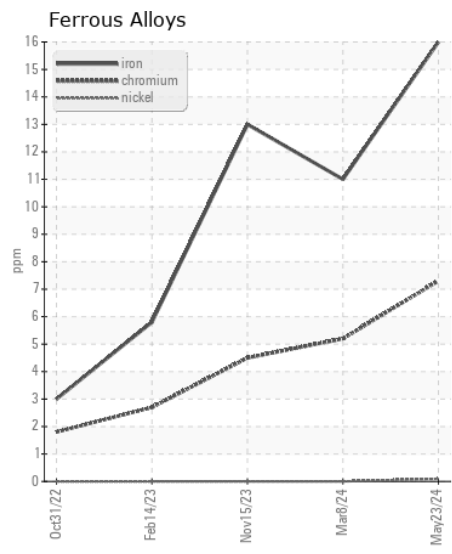
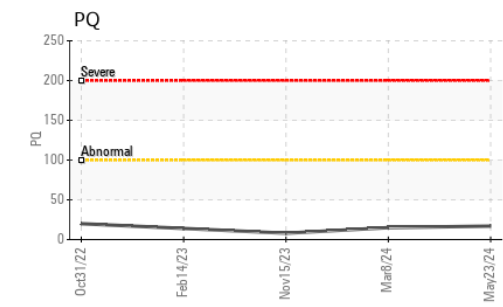
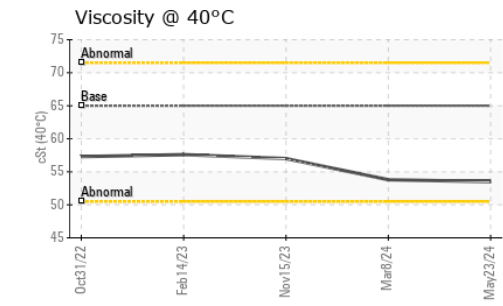
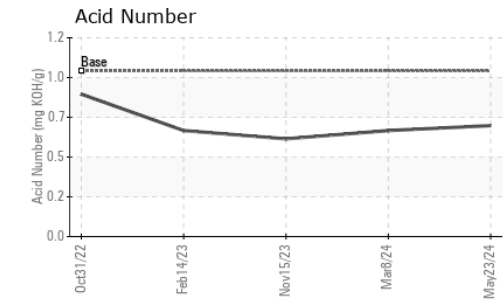
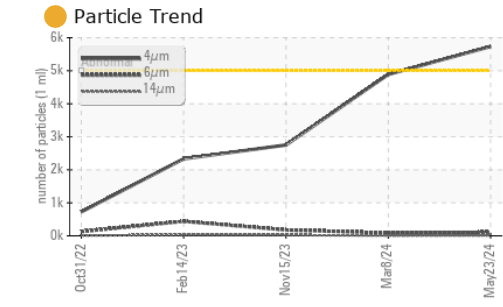
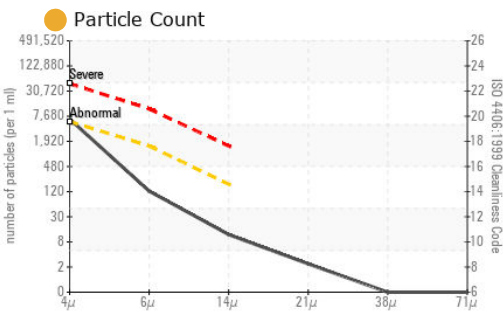
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	11	9	9
Potassium	ppm	ASTM D5185m	>20	6	6	7
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	5735	4889	2751
Particles >6µm		ASTM D7647	>1300	109	85	177
Particles >14µm		ASTM D7647	>160	10	6	22
Particles >21µm		ASTM D7647	>40	2	2	8
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/14/10	19/14/10	19/15/12
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	>0.1	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		1	<1	4
Boron	ppm	ASTM D5185m		29	23	28
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		22	20	23
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		72	65	25
Calcium	ppm	ASTM D5185m	87	401	377	336
Phosphorus	ppm	ASTM D5185m	727	607	597	601
Zinc	ppm	ASTM D5185m	900	781	755	829
Sulfur	ppm	ASTM D5185m	1500	1915	1910	1603
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.67	0.64	0.59
Visc @ 40°C	cSt	ASTM D445	65	53.5	53.8	57.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0208927 **Received** : 30 May 2024
Lab Number : 06195308 **Tested** : 31 May 2024
Unique Number : 11057431 **Diagnosed** : 01 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GREENVILLE
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 GREENVILLE, NC
 US 27834-5800
 Contact: GREENVILLE SHOP
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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)