



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[GLENN TREXLER & SONS]

Machine Id

JOHN DEERE 843L-II 1DW843LBLNF716292

Component

Hydraulic System

Fluid

AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0209674	JR0164589	JR0145618
Sample Date		Client Info		24 Apr 2024	05 Jan 2024	04 Jun 2023
Machine Age	hrs	Client Info		1520	1074	519
Oil Age	hrs	Client Info		0	1074	519
Filter Age	hrs	Client Info		0	1074	519
Oil Changed		Client Info		N/A	N/A	Not Changed
Filter Changed		Client Info		N/A	N/A	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	<1	0	2
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	1	4	3
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

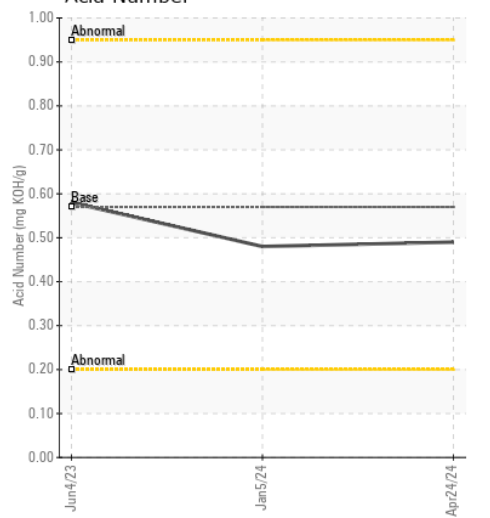
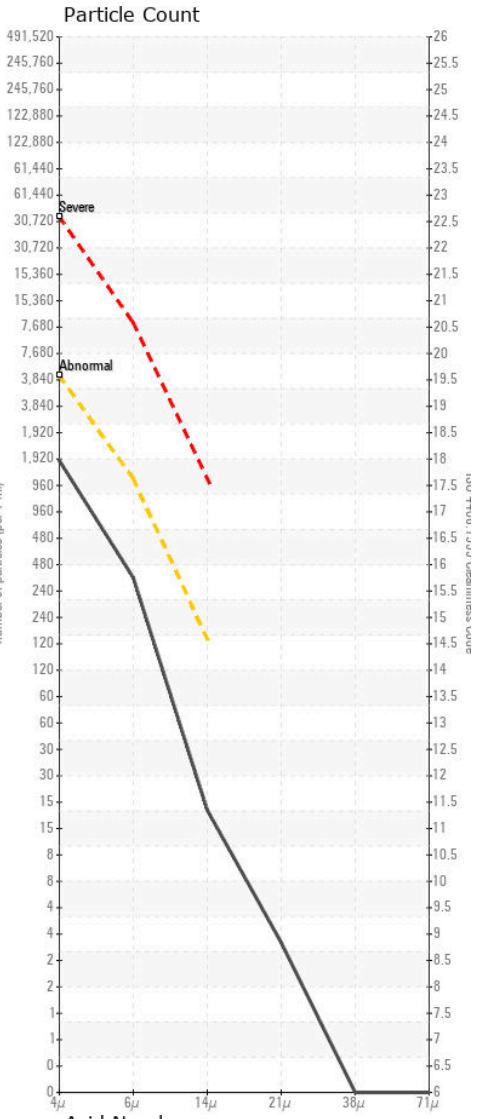
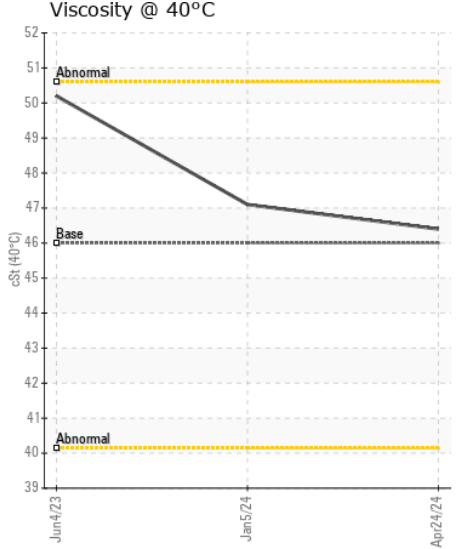
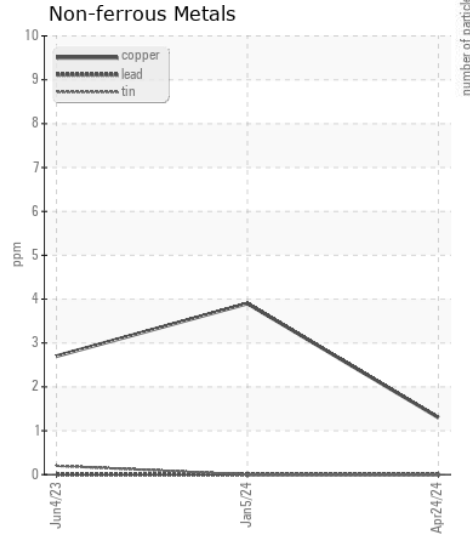
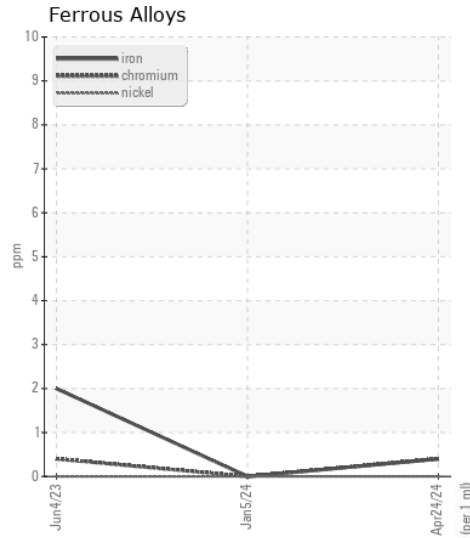
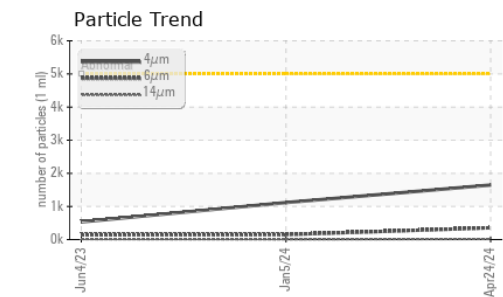
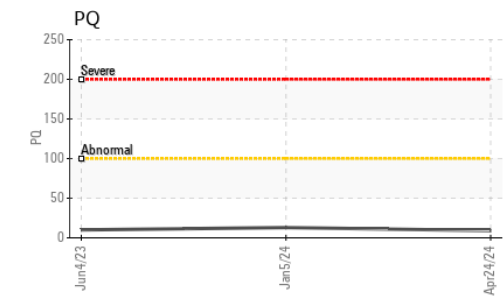
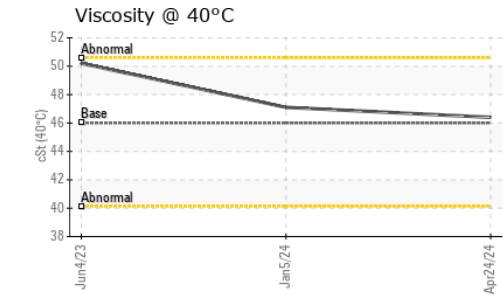
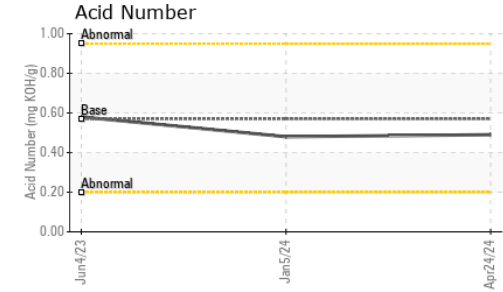
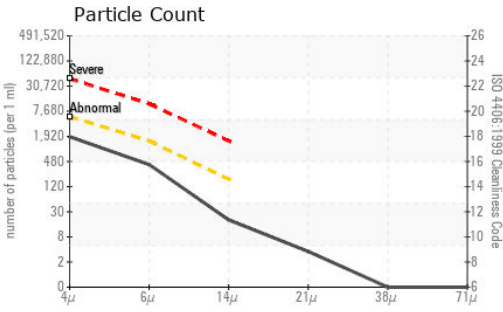
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	1	0	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1647	1117	534
Particles >6µm		ASTM D7647	>1300	356	151	145
Particles >14µm		ASTM D7647	>160	17	9	14
Particles >21µm		ASTM D7647	>40	3	3	4
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/11	17/14/10	16/14/11
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	<1
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	25	32	34	17
Calcium	ppm	ASTM D5185m	200	25	158	67
Phosphorus	ppm	ASTM D5185m	300	353	425	538
Zinc	ppm	ASTM D5185m	370	474	517	690
Sulfur	ppm	ASTM D5185m	2500	1073	1007	1676
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.49	0.48	0.58
Visc @ 40°C	cSt	ASTM D445	46	46.4	47.1	50.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0209674 **Received** : 26 Apr 2024
Lab Number : 06161365 **Tested** : 29 Apr 2024
Unique Number : 10996788 **Diagnosed** : 30 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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 US 27529
 Contact: RALEIGH SHOP
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 T: (919)614-2260
 F: (919)779-5432

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)