



WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL

Machine Id
JOHN DEERE 850L 1T0850LXVPF446530
Component
Right Outer Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218588	JR0211071	JR0199094
Sample Date		Client Info		19 Jun 2024	03 Apr 2024	15 Jan 2024
Machine Age	hrs	Client Info		1987	1449	983
Oil Age	hrs	Client Info		1521	466	983
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		None	N/A	N/A
Sample Status				SEVERE	ABNORMAL	MARGINAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	282	208	171
Iron	ppm	ASTM D5185m	>750	505	264	160
Chromium	ppm	ASTM D5185m	>9	3	1	1
Nickel	ppm	ASTM D5185m	>10	4	0	2
Titanium	ppm	ASTM D5185m		8	2	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>40	121	32	8
Lead	ppm	ASTM D5185m	>15	<1	0	0
Copper	ppm	ASTM D5185m	>40	2	<1	1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

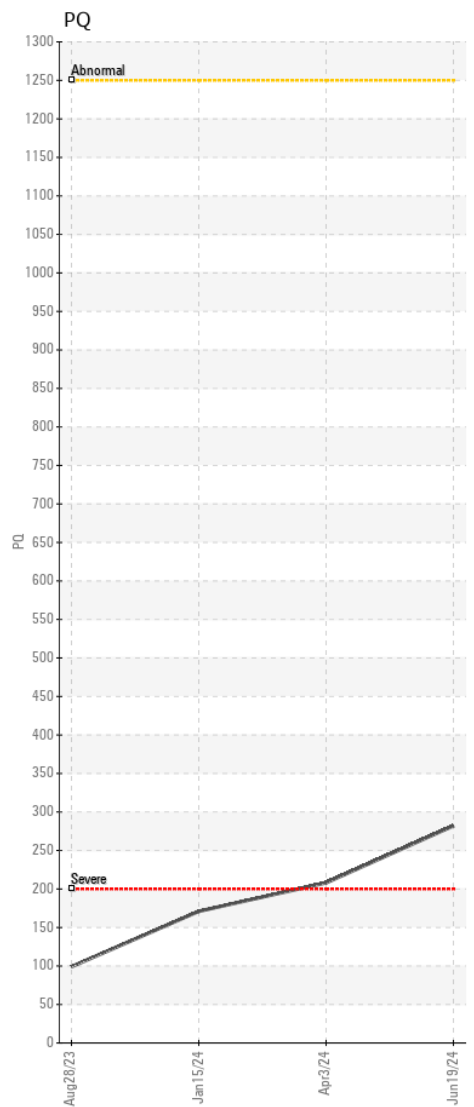
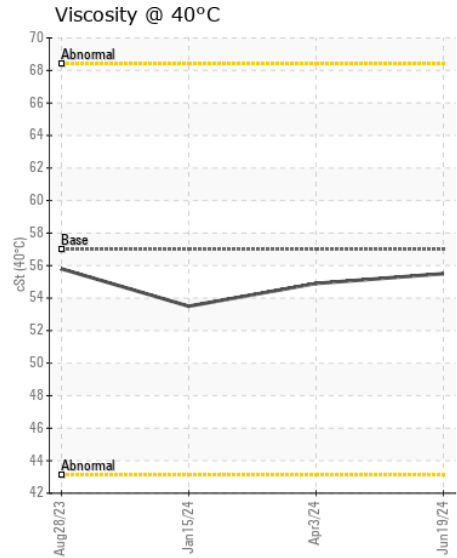
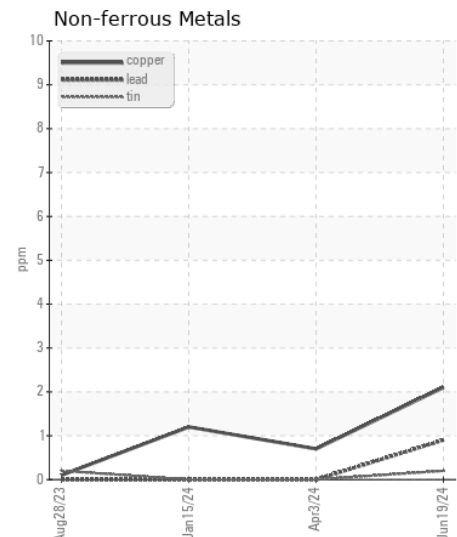
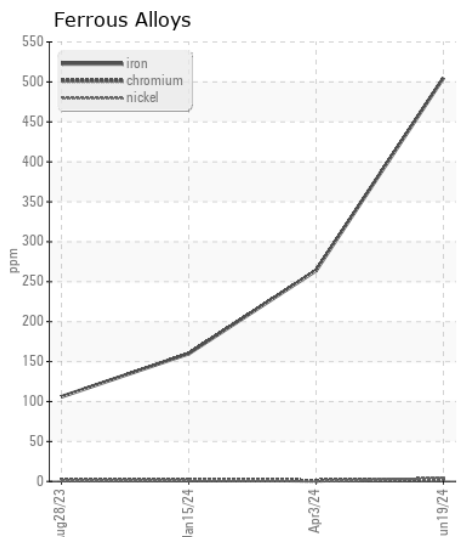
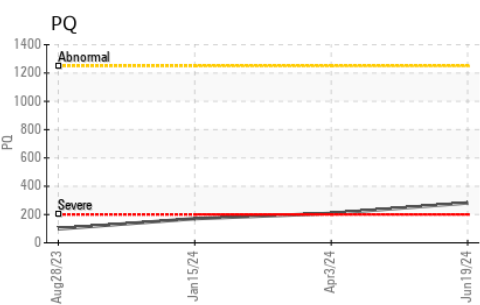
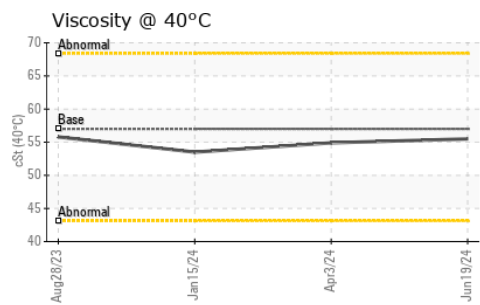
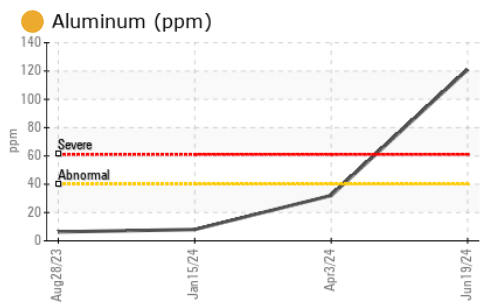
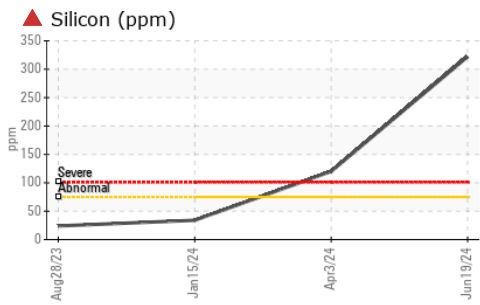
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	322	120	34
Potassium	ppm	ASTM D5185m	>20	35	6	3
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	>0.075	NEG	NEG	0.2%

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	20	4	2
Boron	ppm	ASTM D5185m	6	8	5	<1
Barium	ppm	ASTM D5185m	0	2	0	3
Molybdenum	ppm	ASTM D5185m	0	6	5	<1
Manganese	ppm	ASTM D5185m		7	2	2
Magnesium	ppm	ASTM D5185m	145	132	123	112
Calcium	ppm	ASTM D5185m	3570	3501	3476	3552
Phosphorus	ppm	ASTM D5185m	1290	1035	1065	1035
Zinc	ppm	ASTM D5185m	1640	1219	1238	1229
Sulfur	ppm	ASTM D5185m		4171	3999	3897
Visc @ 40°C	cSt	ASTM D445	57.0	55.5	54.9	53.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218588 **Received** : 24 Jun 2024
Lab Number : 06218551 **Tested** : 25 Jun 2024
Unique Number : 11096748 **Diagnosed** : 26 Jun 2024 - Sean Felton
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)