



WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL

Machine Id
JOHN DEERE 850L 1T0850LXLMF411324
Component
Left 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		JR0211968	JR0179347	JR0148031
Sample Date		Client Info		10 Apr 2024	27 Oct 2023	05 Jan 2023
Machine Age	hrs	Client Info		3939	2959	2010
Oil Age	hrs	Client Info		0	0	1043
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	344	54	150
Iron	ppm	ASTM D5185m	>750	681	74	291
Chromium	ppm	ASTM D5185m	>9	4	<1	1
Nickel	ppm	ASTM D5185m	>10	6	<1	0
Titanium	ppm	ASTM D5185m		8	1	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	185	12	23
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	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

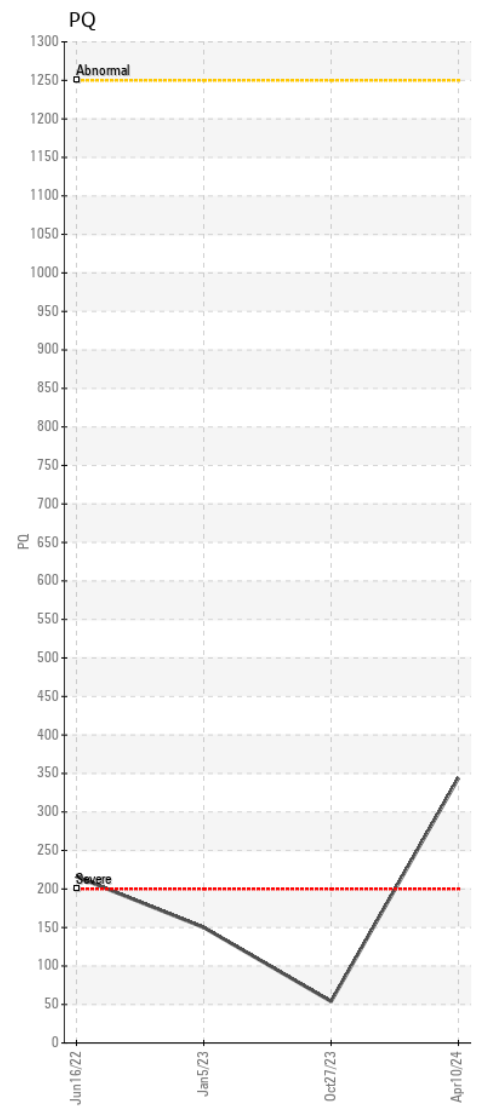
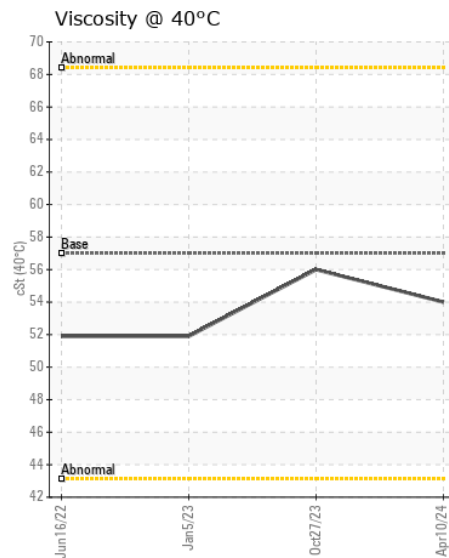
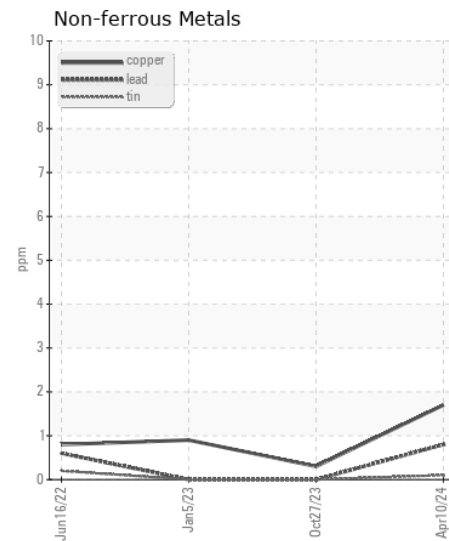
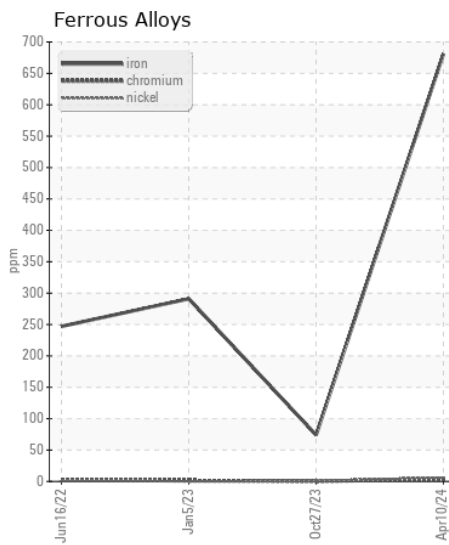
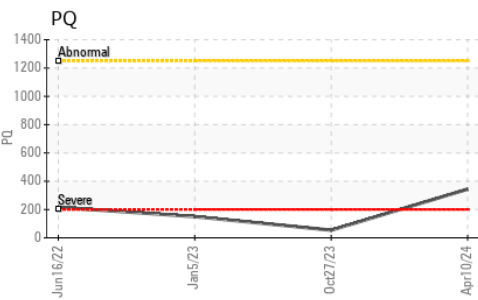
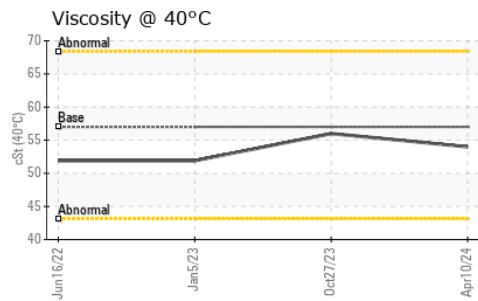
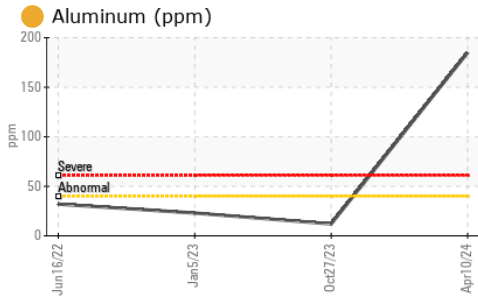
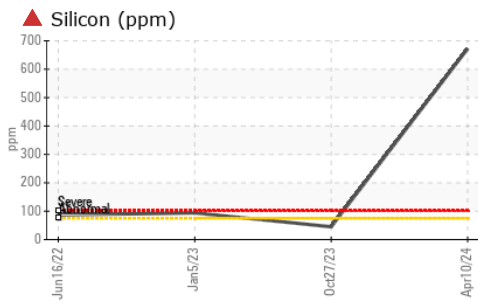
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	672	45	94
Potassium	ppm	ASTM D5185m	>20	47	5	8
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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	>0.075	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	14	0	0
Boron	ppm	ASTM D5185m	6	5	<1	2
Barium	ppm	ASTM D5185m	0	2	<1	0
Molybdenum	ppm	ASTM D5185m	0	4	<1	1
Manganese	ppm	ASTM D5185m		6	<1	2
Magnesium	ppm	ASTM D5185m	145	134	103	98
Calcium	ppm	ASTM D5185m	3570	3574	3361	3544
Phosphorus	ppm	ASTM D5185m	1290	1120	1065	1045
Zinc	ppm	ASTM D5185m	1640	1292	1285	1237
Sulfur	ppm	ASTM D5185m		4130	4837	3426
Visc @ 40°C	cSt	ASTM D445	57.0	54.0	56.0	51.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211968
Lab Number : 06148981
Unique Number : 10979059
Test Package : CONST (Additional Tests: PQ)

Received : 15 Apr 2024
Tested : 16 Apr 2024
Diagnosed : 17 Apr 2024 - Sean Felton

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005

Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com

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)

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