



Machine Id
JOHN DEERE 850K 1T0850KXCJF329773
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. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218739	JR0127989	JR0127990
Sample Date		Client Info		07 Jun 2024	27 Apr 2022	27 Apr 2022
Machine Age	hrs	Client Info		6392	3973	3973
Oil Age	hrs	Client Info		0	500	500
Filter Age	hrs	Client Info		0	500	500
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	267	51	61
Iron	ppm	ASTM D5185m	>750	▲ 671	29	57
Chromium	ppm	ASTM D5185m	>9	3	<1	<1
Nickel	ppm	ASTM D5185m	>10	4	0	0
Titanium	ppm	ASTM D5185m		2	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>40	● 17	2	2
Lead	ppm	ASTM D5185m	>15	<1	<1	<1
Copper	ppm	ASTM D5185m	>40	1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

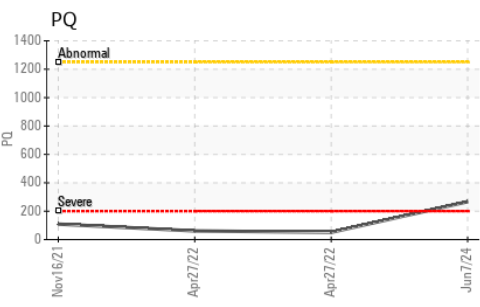
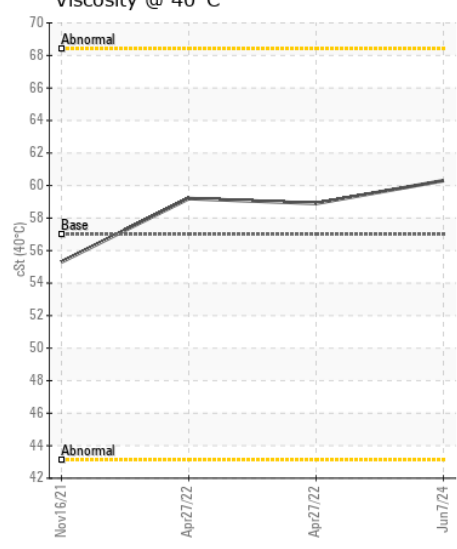
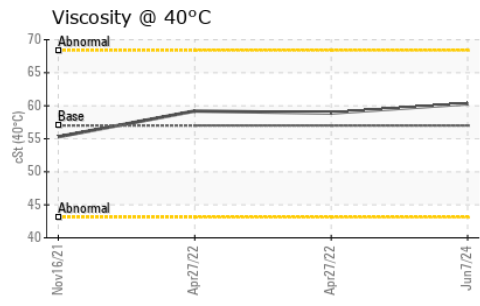
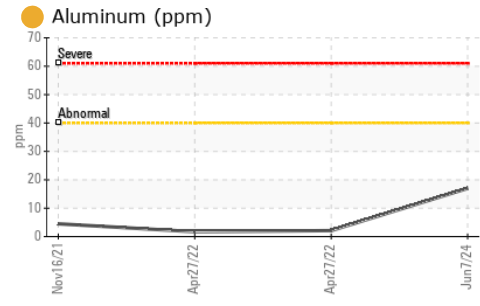
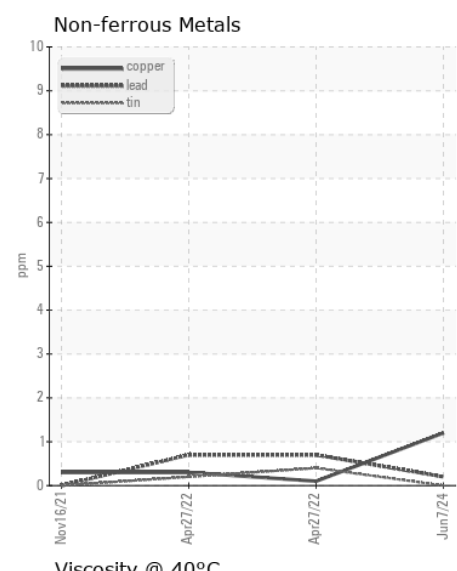
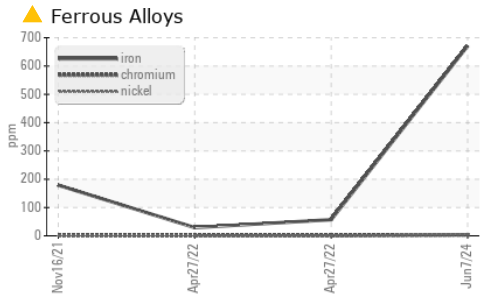
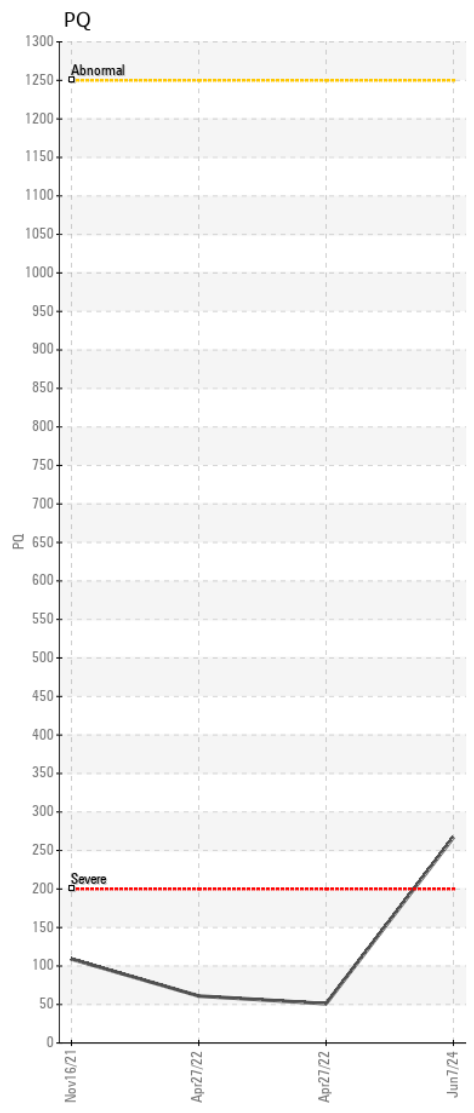
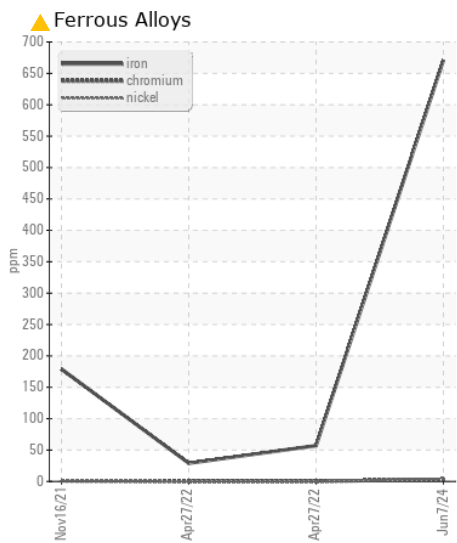
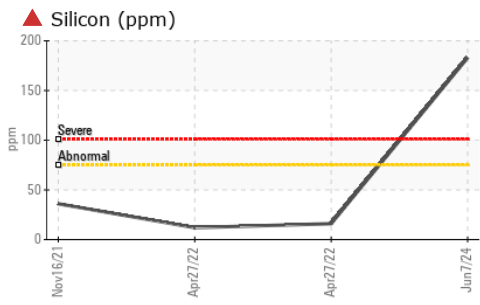
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 183	12	16
Potassium	ppm	ASTM D5185m	>20	5	<1	<1
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	<1	<1	<1
Boron	ppm	ASTM D5185m	6	2	2	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	1	<1	<1
Manganese	ppm	ASTM D5185m		5	<1	<1
Magnesium	ppm	ASTM D5185m	145	100	107	105
Calcium	ppm	ASTM D5185m	3570	3641	3483	3399
Phosphorus	ppm	ASTM D5185m	1290	1042	1046	1011
Zinc	ppm	ASTM D5185m	1640	1297	1198	1153
Sulfur	ppm	ASTM D5185m		3780	3207	3076
Visc @ 40°C	cSt	ASTM D445	57.0	60.3	58.9	59.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218739 **Received** : 14 Jun 2024
Lab Number : 06210422 **Tested** : 17 Jun 2024
Unique Number : 11083286 **Diagnosed** : 18 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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 101 BRUCE DRIVE
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 US 28806
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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)