



Area
[W8934]
Machine Id
JOHN DEERE 850K 1T0850KXJJF343226
Component
Right Outer Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (18 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. (Customer Sample Comment: W8934)

WEAR

All component wear rates are normal for time on oil.

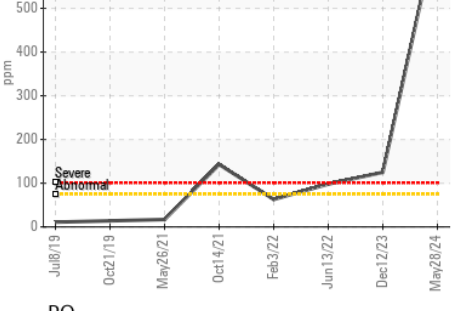
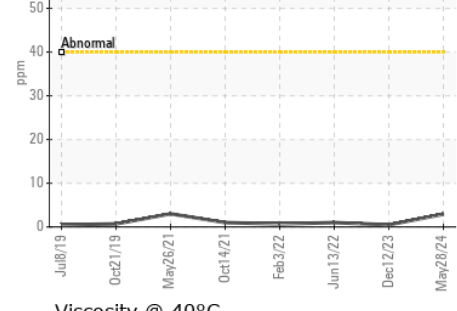
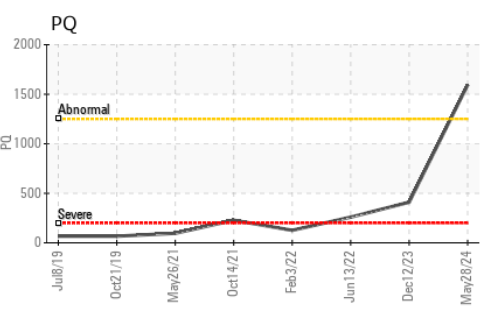
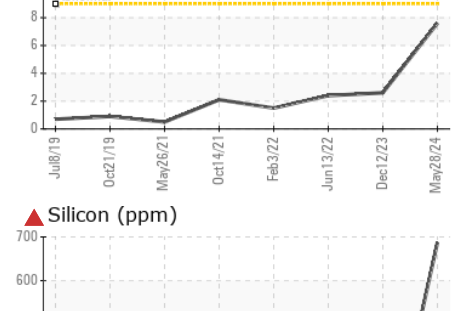
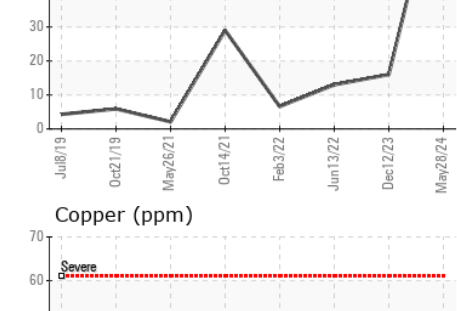
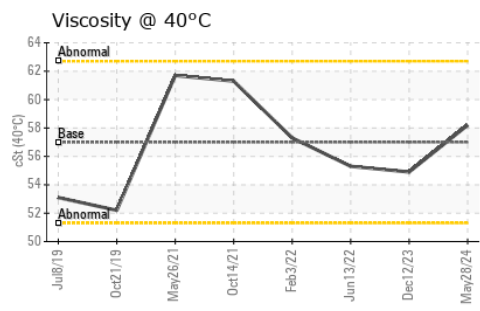
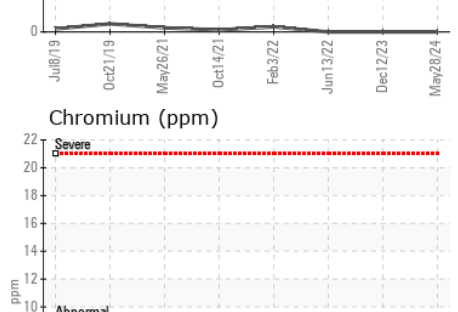
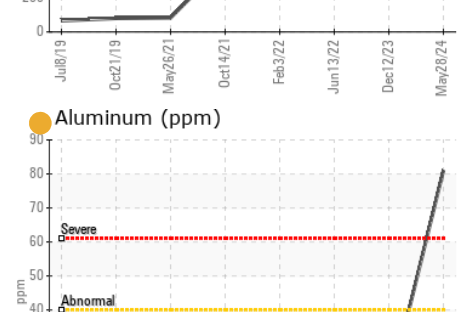
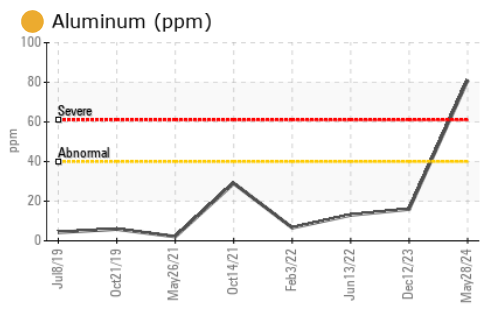
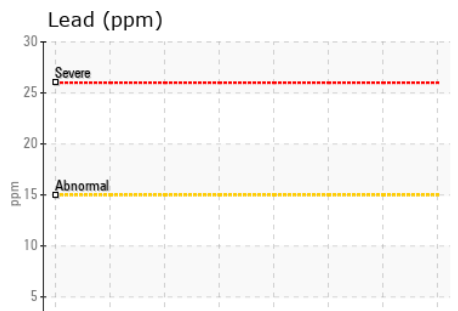
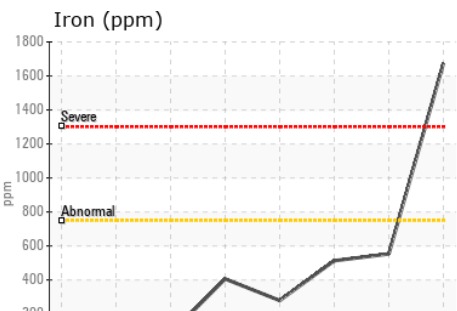
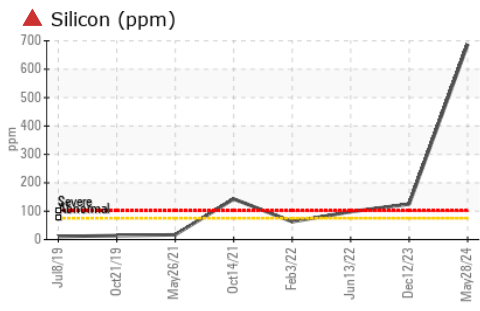
CONTAMINATION

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

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196899	JR0194270	JR0132485
Sample Date		Client Info		28 May 2024	12 Dec 2023	13 Jun 2022
Machine Age	hrs	Client Info		5559	4896	3941
Oil Age	hrs	Client Info		4604	0	3941
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>1250	1594	410	259
Iron	ppm	ASTM D5185m	>750	1674	553	513
Chromium	ppm	ASTM D5185m	>9	8	3	2
Nickel	ppm	ASTM D5185m	>10	9	4	2
Titanium	ppm	ASTM D5185m		11	2	2
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>40	81	16	13
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	3	<1	1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	687	125	98
Potassium	ppm	ASTM D5185m	>20	3	3	0
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
Sodium	ppm	ASTM D5185m	>51	<1	1	1
Boron	ppm	ASTM D5185m	6	43	4	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	35	3	3
Manganese	ppm	ASTM D5185m		14	5	4
Magnesium	ppm	ASTM D5185m	145	198	118	95
Calcium	ppm	ASTM D5185m	3570	3083	3393	3203
Phosphorus	ppm	ASTM D5185m	1290	1000	1071	976
Zinc	ppm	ASTM D5185m	1640	1173	1286	1201
Sulfur	ppm	ASTM D5185m		3824	3979	3368
Visc @ 40°C	cSt	ASTM D445	57.0	58.2	54.9	55.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196899 **Received** : 29 May 2024
Lab Number : 06194287 **Tested** : 31 May 2024
Unique Number : 11056410 **Diagnosed** : 31 May 2024 - Don Baldrige
Test Package : MOBCE (Additional Tests: PQ)

JRE - HOPE MILLS/FAYETTEVILLE
 5039 HWY 301 SOUTH
 HOPE MILLS, NC
 US 28348
 Contact: FAYETTEVILLE SHOP
 stephen.mullis@jamesriverequipment.com; panastasio@wearcheck.com
 T:
 F:

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)