



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 850K 1T0850KXHJF339507
 Component
Left Outer Final Drive
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

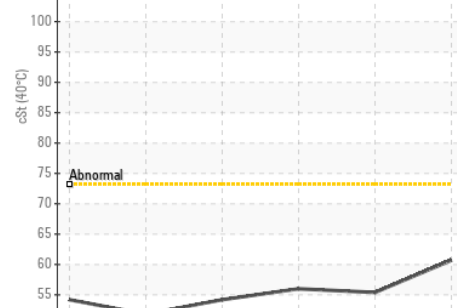
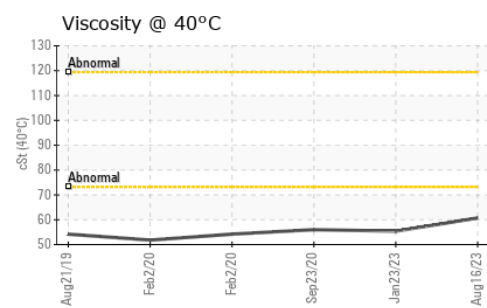
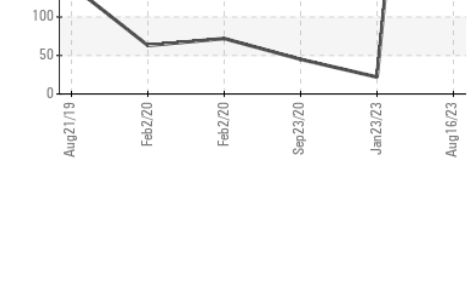
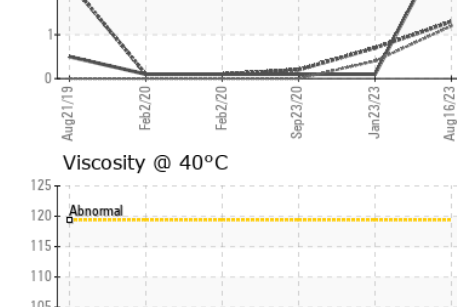
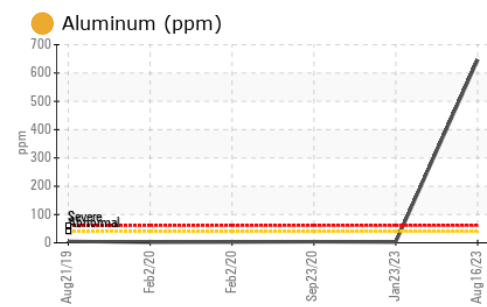
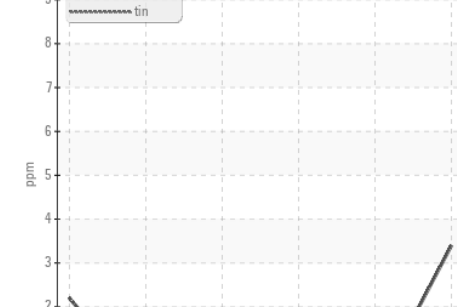
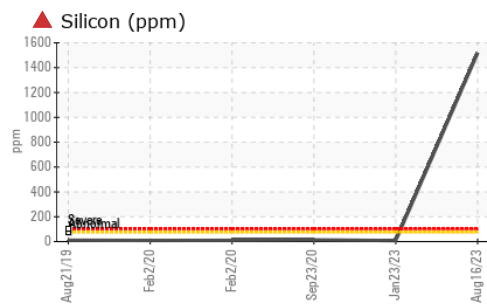
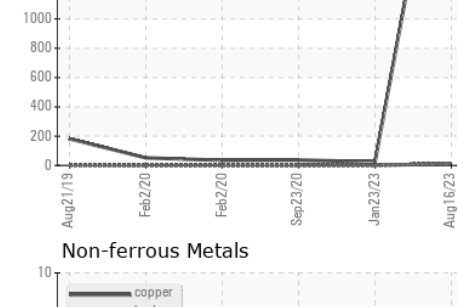
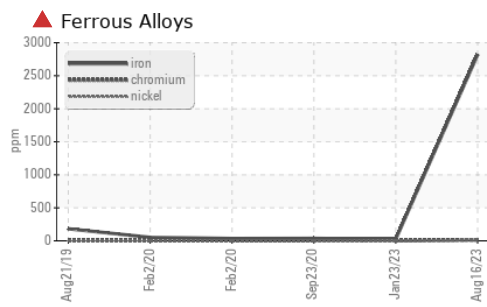
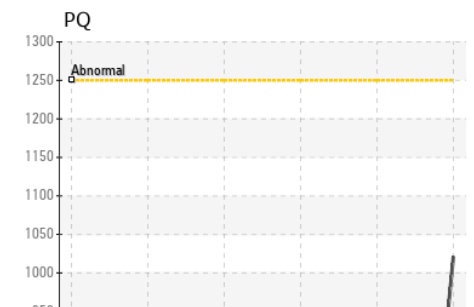
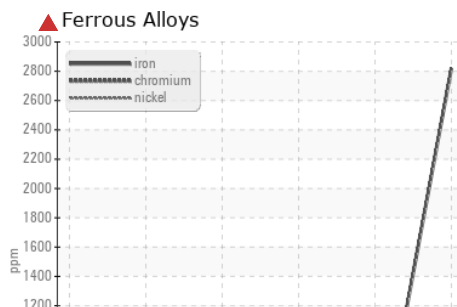
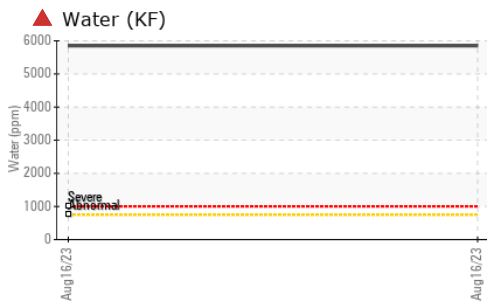
CONTAMINATION

There is a high concentration of water present in the oil. 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		JR0182896	JR0138723	JRMC410566
Sample Date		Client Info		16 Aug 2023	23 Jan 2023	23 Sep 2020
Machine Age	hrs	Client Info		0	5963	2892
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	NORMAL
PQ		ASTM D8184	>1250	1021	22	45
Iron	ppm	ASTM D5185m	>750	▲ 2820	25	37
Chromium	ppm	ASTM D5185m	>9	12	<1	<1
Nickel	ppm	ASTM D5185m	>10	11	<1	<1
Titanium	ppm	ASTM D5185m		48	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>40	● 646	2	4
Lead	ppm	ASTM D5185m	>15	1	<1	<1
Copper	ppm	ASTM D5185m	>40	3	<1	<1
Tin	ppm	ASTM D5185m	>10	1	<1	0
Vanadium	ppm	ASTM D5185m		2	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 1517	8	14
Potassium	ppm	ASTM D5185m	>20	91	0	2
Water	%	ASTM D6304	>0.075	▲ 0.585	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 5850	---	---
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	>0.075	▲ 0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	22	1	2
Boron	ppm	ASTM D5185m		34	47	52
Barium	ppm	ASTM D5185m		5	12	0
Molybdenum	ppm	ASTM D5185m		26	39	45
Manganese	ppm	ASTM D5185m		25	<1	<1
Magnesium	ppm	ASTM D5185m		215	201	239
Calcium	ppm	ASTM D5185m		2879	3084	3196
Phosphorus	ppm	ASTM D5185m		972	957	1008
Zinc	ppm	ASTM D5185m		1114	1190	1219
Sulfur	ppm	ASTM D5185m		3842	3714	3128
Visc @ 40°C	cSt	ASTM D445		60.7	55.4	56.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0182896 **Received** : 17 Aug 2023
Lab Number : 05927493 **Tested** : 18 Aug 2023
Unique Number : 10607440 **Diagnosed** : 18 Aug 2023 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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 F: (336)665-9556

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)