



WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 850K 1T0850KXTEE256742
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		JR0225165	JR0061748	JR0039020
Sample Date		Client Info		16 Jul 2024	09 Sep 2020	05 Mar 2020
Machine Age	hrs	Client Info		11057	6619	6044
Oil Age	hrs	Client Info		0	500	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	338	165	256
Iron	ppm	ASTM D5185m	>750	▲ 1556	210	372
Chromium	ppm	ASTM D5185m	>9	▲ 10	2	3
Nickel	ppm	ASTM D5185m	>10	9	2	3
Titanium	ppm	ASTM D5185m		14	1	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 129	12	● 25
Lead	ppm	ASTM D5185m	>15	<1	0	<1
Copper	ppm	ASTM D5185m	>40	3	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

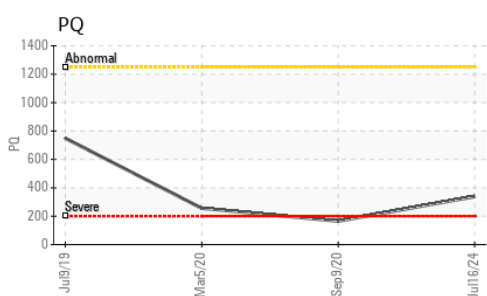
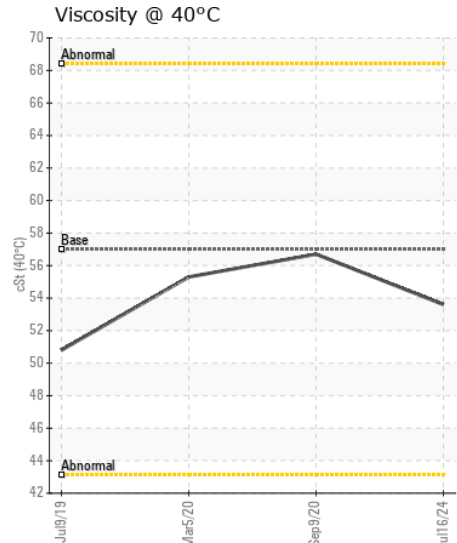
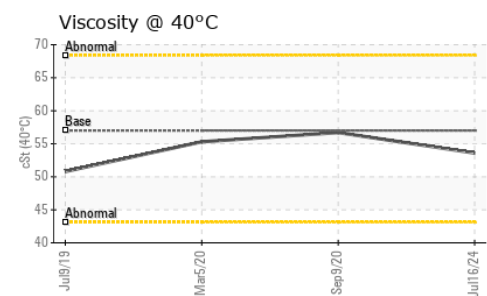
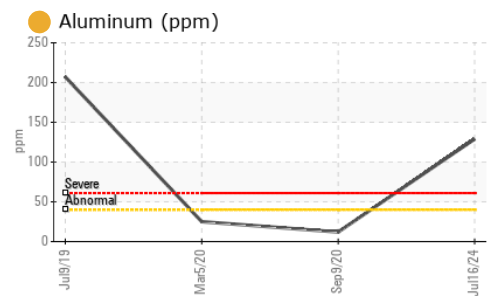
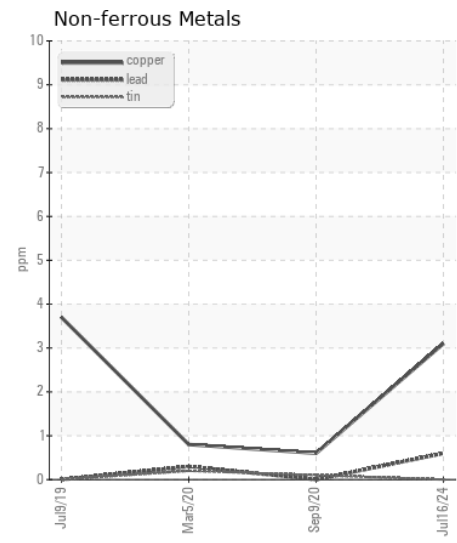
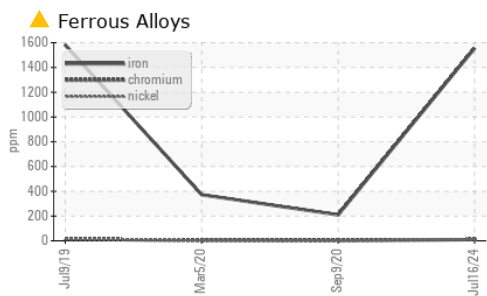
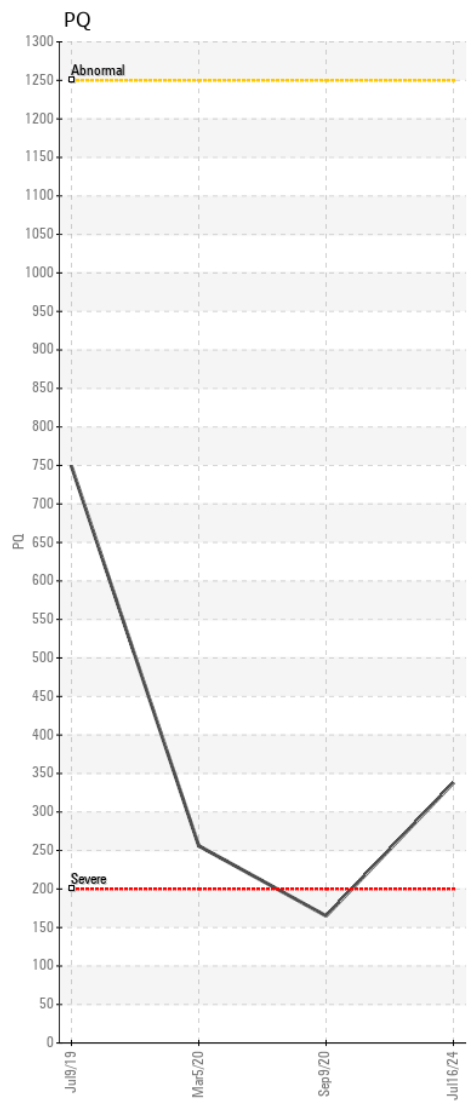
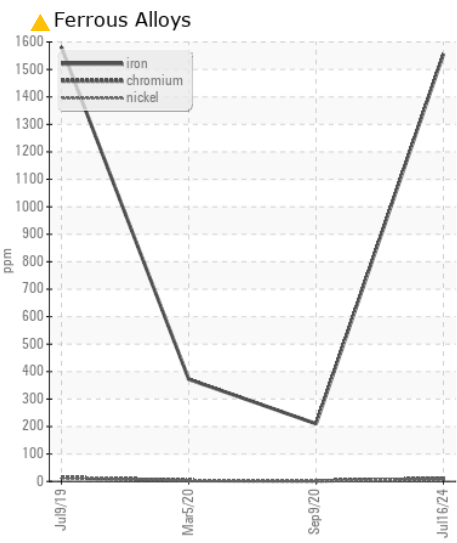
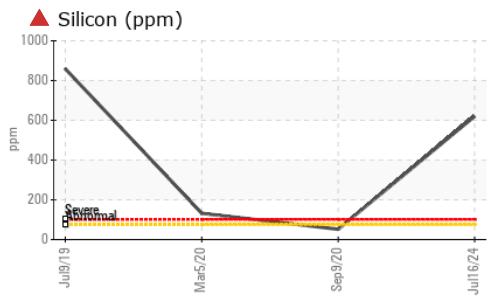
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 620	52	▲ 132
Potassium	ppm	ASTM D5185m	>20	37	4	5
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	NONE	MODER
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	7	2	3
Boron	ppm	ASTM D5185m	6	9	12	2
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	7	5	0
Manganese	ppm	ASTM D5185m		12	2	3
Magnesium	ppm	ASTM D5185m	145	120	108	93
Calcium	ppm	ASTM D5185m	3570	3516	3184	3197
Phosphorus	ppm	ASTM D5185m	1290	937	939	914
Zinc	ppm	ASTM D5185m	1640	1233	1174	1031
Sulfur	ppm	ASTM D5185m		3693	2972	2473
Visc @ 40°C	cSt	ASTM D445	57.0	53.6	56.7	55.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0225165 **Received** : 17 Jul 2024
Lab Number : 06239361 **Tested** : 18 Jul 2024
Unique Number : 11128195 **Diagnosed** : 19 Jul 2024 - Don Baldrige
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)