



Area
[05W46607]
Machine Id
JOHN DEERE 850K 1T0850KXKLF369647
Component
Left Outer Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (4 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 recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

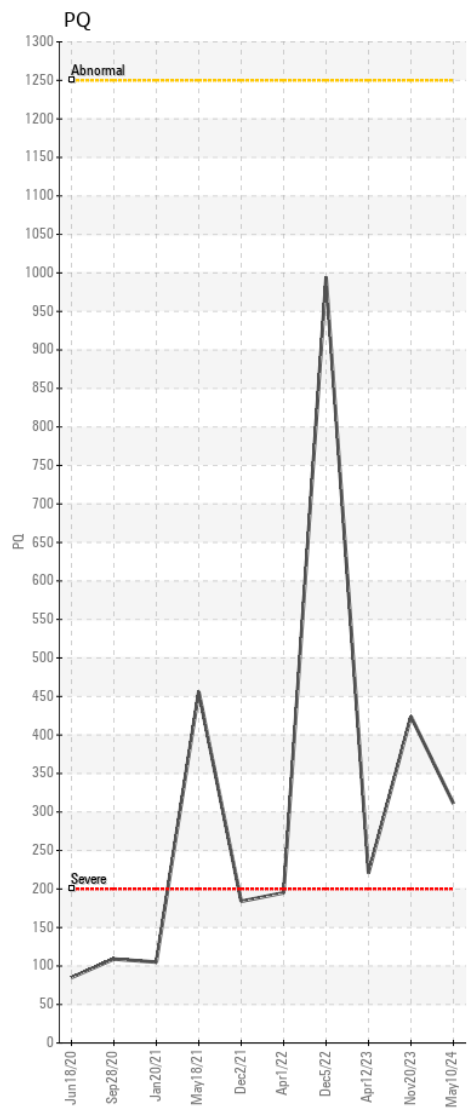
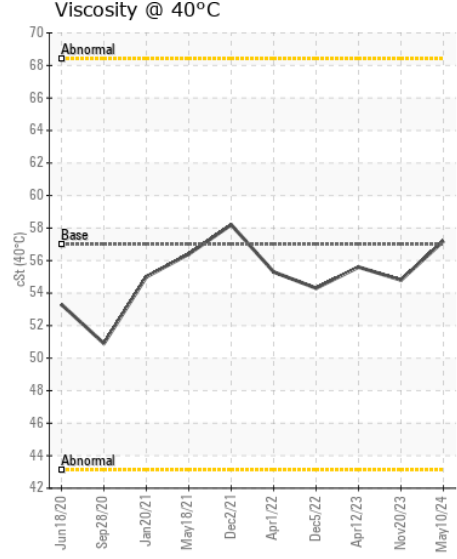
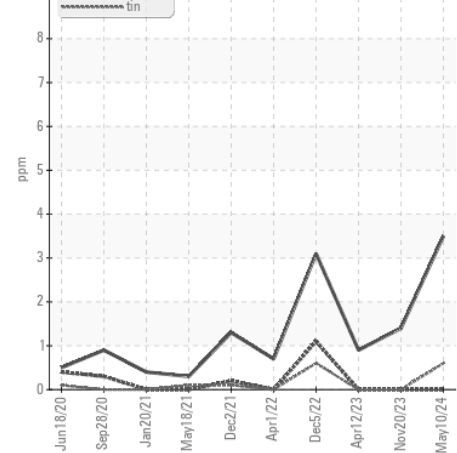
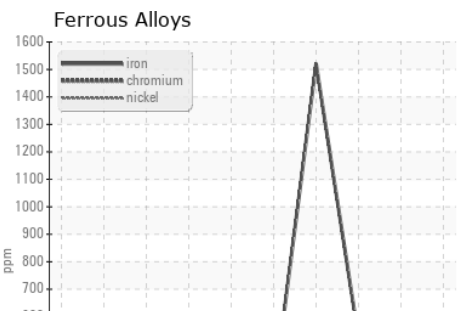
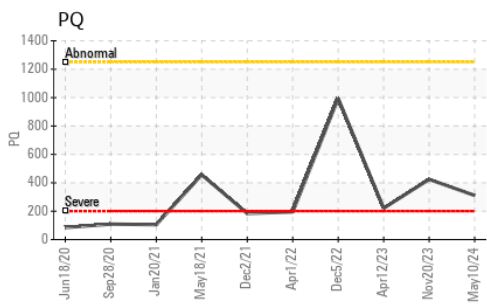
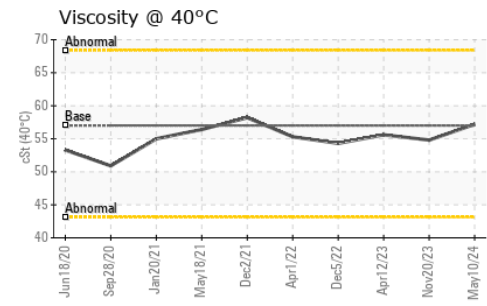
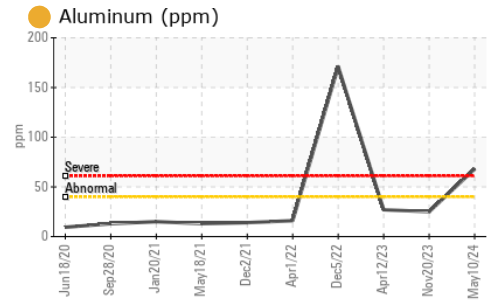
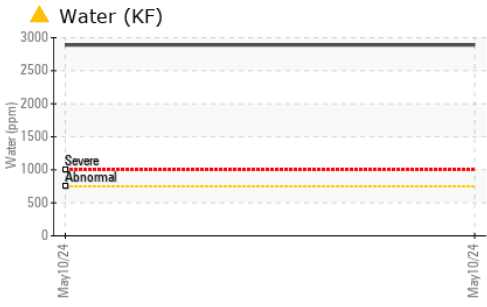
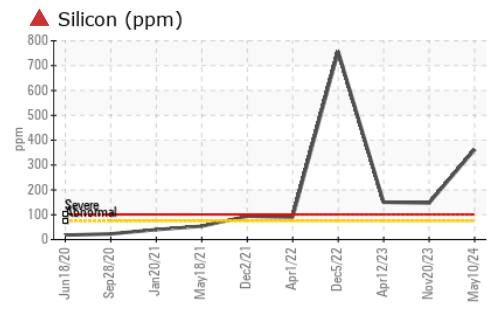
CONTAMINATION

There is a moderate 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		JR0214380	JR0192139	JR0169089
Sample Date		Client Info		10 May 2024	20 Nov 2023	12 Apr 2023
Machine Age	hrs	Client Info		5467	4980	4443
Oil Age	hrs	Client Info		487	4503	477
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	None	None
Sample Status				SEVERE	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>1250	311	424	221
Iron	ppm	ASTM D5185m	>750	376	606	524
Chromium	ppm	ASTM D5185m	>9	2	3	2
Nickel	ppm	ASTM D5185m	>10	2	4	3
Titanium	ppm	ASTM D5185m		8	2	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	68	25	27
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	4	1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 362	▲ 147	▲ 150
Potassium	ppm	ASTM D5185m	>20	14	6	4
Water	%	ASTM D6304	>0.075	▲ 0.289	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 2890	---	---
Silt	scalar	*Visual	NONE	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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	4	<1	2
Boron	ppm	ASTM D5185m	6	7	9	9
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	6	9	9
Manganese	ppm	ASTM D5185m		4	5	5
Magnesium	ppm	ASTM D5185m	145	132	132	134
Calcium	ppm	ASTM D5185m	3570	3451	3438	3420
Phosphorus	ppm	ASTM D5185m	1290	1004	1037	990
Zinc	ppm	ASTM D5185m	1640	1240	1253	1226
Sulfur	ppm	ASTM D5185m		3955	3803	4213
Visc @ 40°C	cSt	ASTM D445	57.0	57.2	54.8	55.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0214380 **Received** : 13 May 2024
Lab Number : 06177481 **Tested** : 15 May 2024
Unique Number : 11023534 **Diagnosed** : 15 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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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)