



Area
[16W15395]
Machine Id
JOHN DEERE 750K 1T0750KXJHF306604
Component
Left Outer Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (4 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. (Customer Sample Comment: 16W15395)

WEAR

All component wear rates are normal.

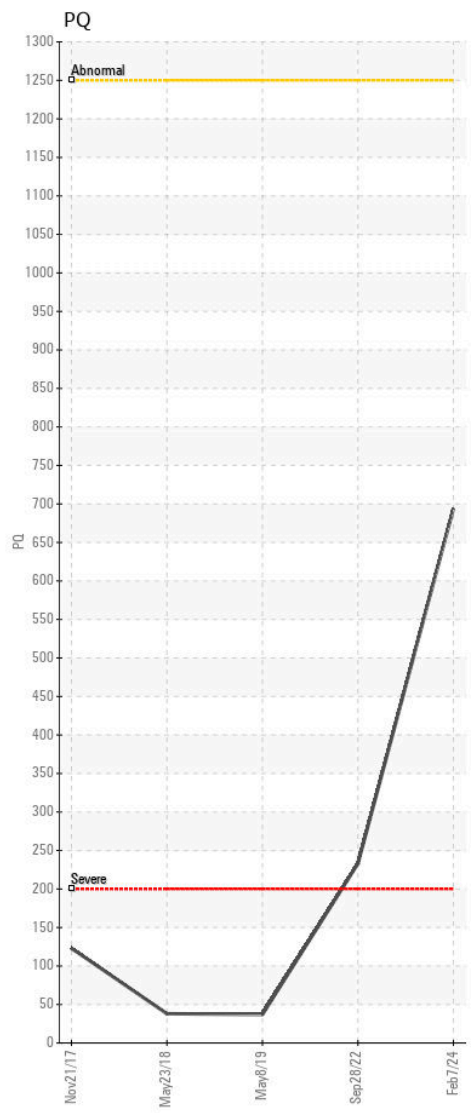
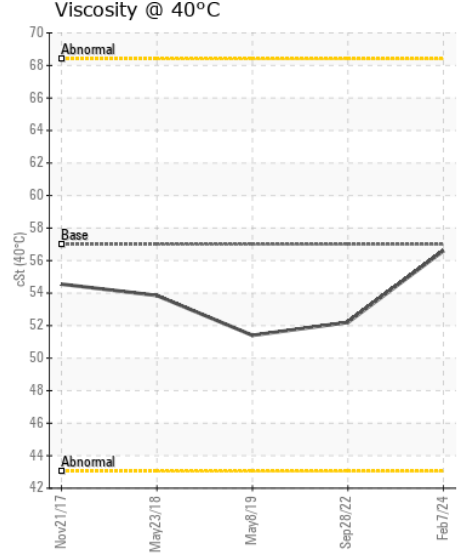
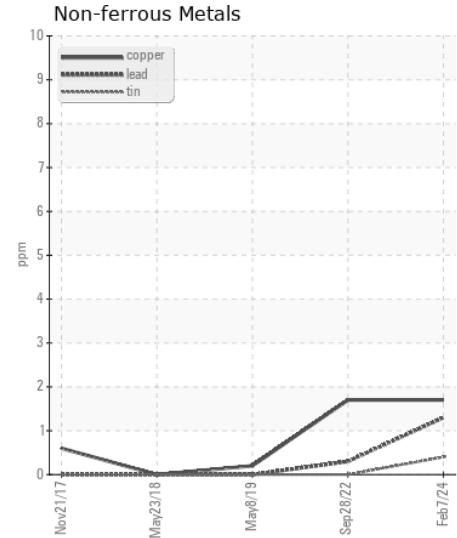
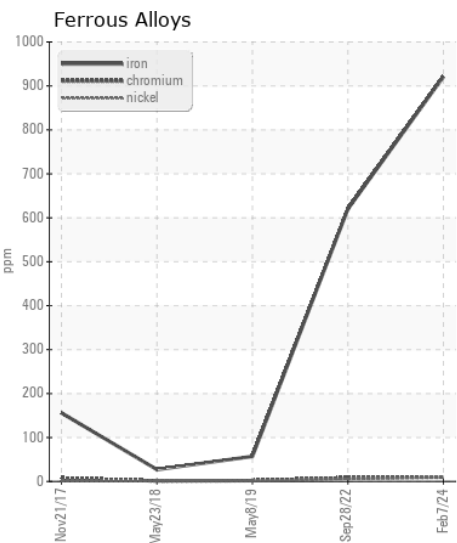
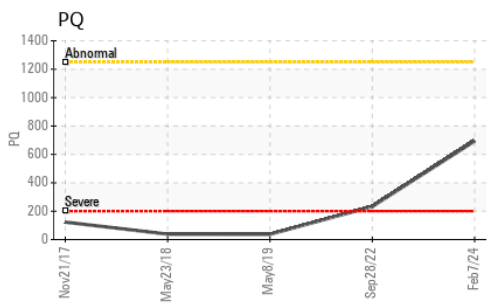
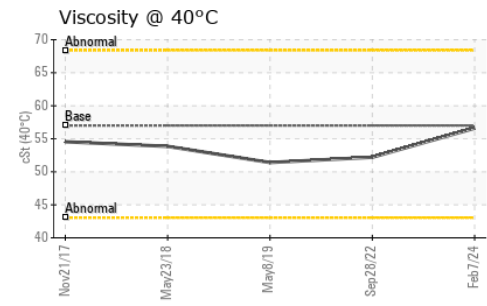
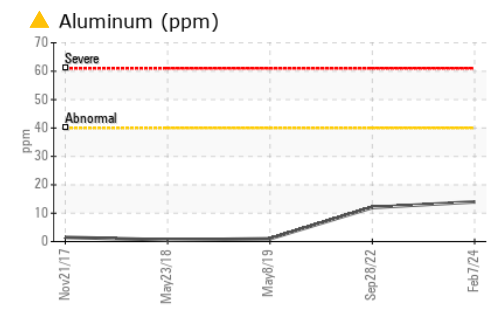
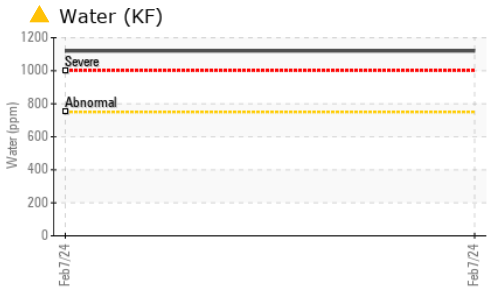
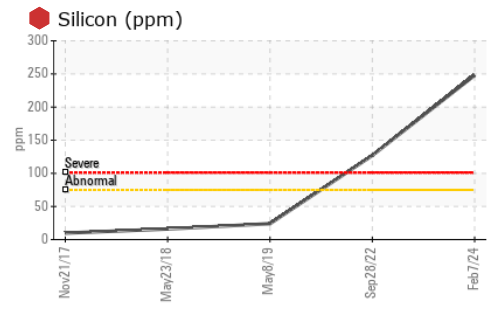
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

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		JR0196366	JR0136135	JR0007178
Sample Date		Client Info		07 Feb 2024	28 Sep 2022	08 May 2019
Machine Age	hrs	Client Info		4316	3745	1891
Oil Age	hrs	Client Info		571	1854	780
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL
PQ		ASTM D8184	>1250	694	233	37
Iron	ppm	ASTM D5185m	>750	921	620	57
Chromium	ppm	ASTM D5185m	>9	10	8	2
Nickel	ppm	ASTM D5185m	>10	10	6	<1
Titanium	ppm	ASTM D5185m		4	2	<1
Silver	ppm	ASTM D5185m		0	1	0
Aluminum	ppm	ASTM D5185m	>40	▲ 14	▲ 12	1
Lead	ppm	ASTM D5185m	>15	1	<1	0
Copper	ppm	ASTM D5185m	>40	2	2	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	◆ 248	▲ 127	24
Potassium	ppm	ASTM D5185m	>20	1	7	17
Water	%	ASTM D6304	>0.075	▲ 0.112	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 1120	---	---
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	1	2	3
Boron	ppm	ASTM D5185m	6	<1	8	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	1	4	<1
Manganese	ppm	ASTM D5185m		7	6	<1
Magnesium	ppm	ASTM D5185m	145	92	114	94
Calcium	ppm	ASTM D5185m	3570	3135	3954	3270
Phosphorus	ppm	ASTM D5185m	1290	917	1248	935
Zinc	ppm	ASTM D5185m	1640	1146	1479	1140
Sulfur	ppm	ASTM D5185m		3120	5425	2885
Visc @ 40°C	cSt	ASTM D445	57.0	56.6	52.2	51.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196366 **Received** : 09 Feb 2024
Lab Number : 06085019 **Tested** : 12 Feb 2024
Unique Number : 10872464 **Diagnosed** : 12 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

JRE - GARNER
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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)