



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 670 DW670CX572353

Component
Transmission

Fluid
JOHN DEERE HY-GARD HYD/TRANS (5 QTS)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the fluid 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.

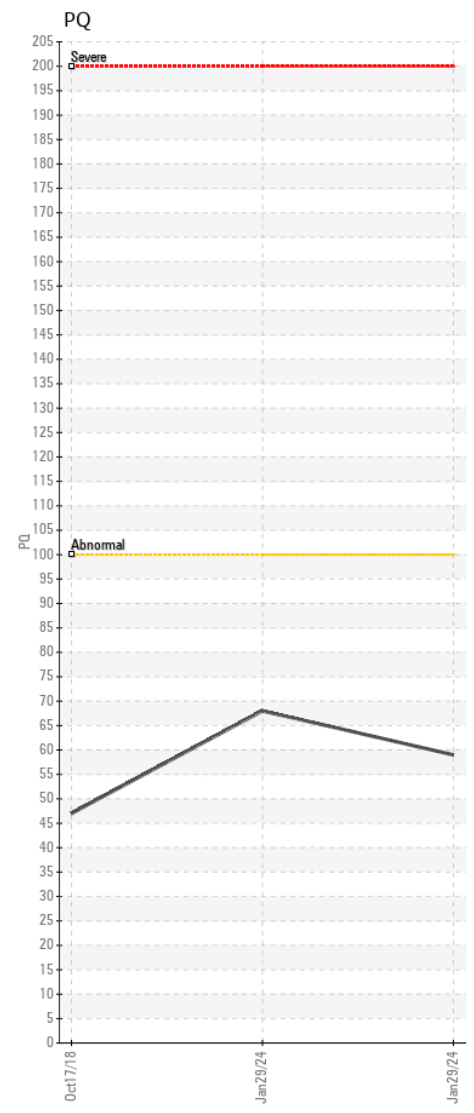
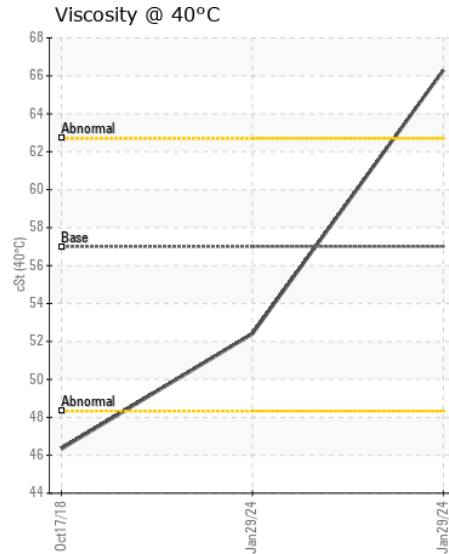
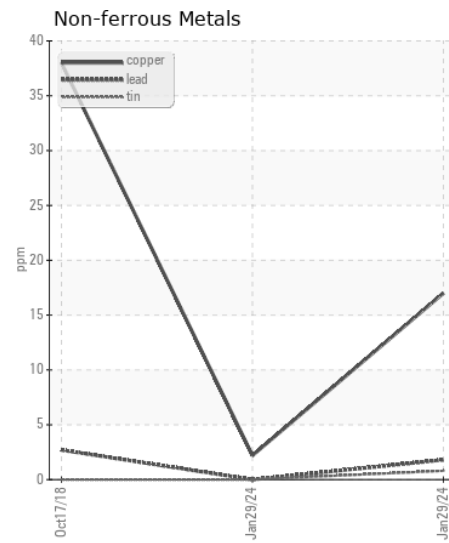
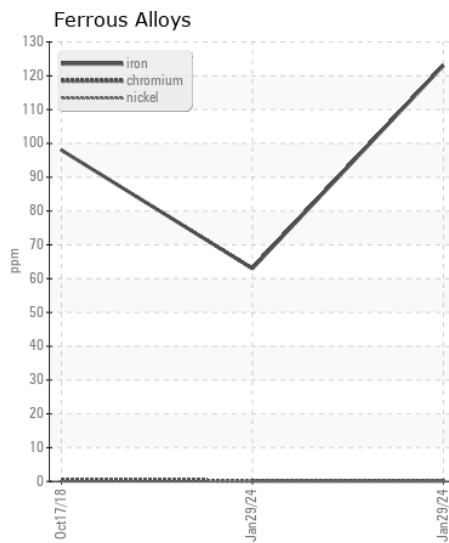
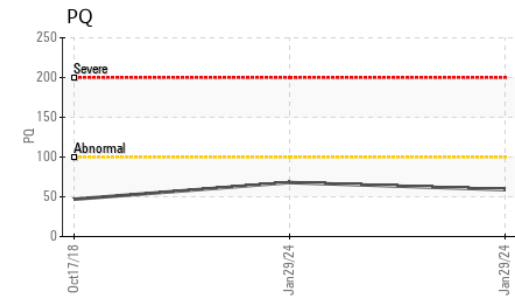
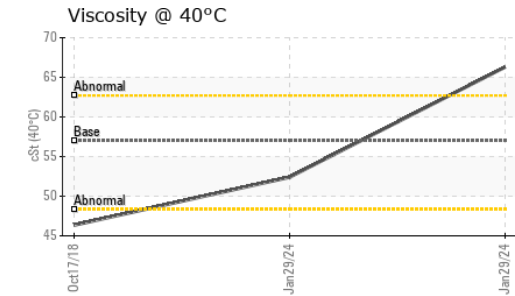
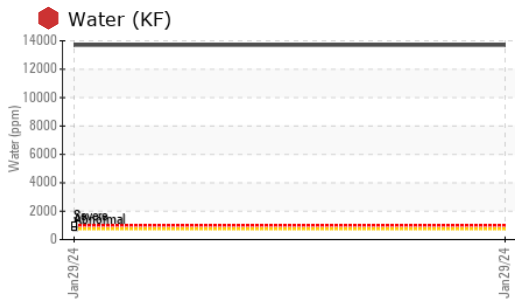
CONTAMINATION

There is a high concentration of water present in the fluid.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0194859	JR0194860	JRMC394999
Sample Date		Client Info		29 Jan 2024	29 Jan 2024	17 Oct 2018
Machine Age	hrs	Client Info		4340	4340	3821
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	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>100	59	68	47
Iron	ppm	ASTM D5185m	>61	63	▲ 123	▲ 98
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	4
Lead	ppm	ASTM D5185m	>9	0	2	3
Copper	ppm	ASTM D5185m	>100	2	17	38
Tin	ppm	ASTM D5185m	>3	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>21	6	8	▲ 42
Potassium	ppm	ASTM D5185m	>20	5	2	2
Water	%	ASTM D6304	>0.075	◆ 1.37	---	---
ppm Water	ppm	ASTM D6304	>750	◆ 13700	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	MILKY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	◆ 0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m	>30	<1	0	8
Boron	ppm	ASTM D5185m	6	14	32	15
Barium	ppm	ASTM D5185m	0	<1	1	0
Molybdenum	ppm	ASTM D5185m	0	12	29	5
Manganese	ppm	ASTM D5185m		0	<1	2
Magnesium	ppm	ASTM D5185m	145	109	188	89
Calcium	ppm	ASTM D5185m	3570	1412	3984	3500
Phosphorus	ppm	ASTM D5185m	1290	1044	1438	927
Zinc	ppm	ASTM D5185m	1640	1215	1601	1264
Sulfur	ppm	ASTM D5185m		3999	5623	3357
Visc @ 40°C	cSt	ASTM D445	57.0	66.3	52.4	46.34



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0194859 **Received** : 30 Jan 2024
Lab Number : 06075043 **Diagnosed** : 02 Feb 2024
Unique Number : 10857134 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: KF, PQ)

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)

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