



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[44275]
 Machine Id
JOHN DEERE 501075
 Component
Transmission
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (16 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0199085	JR0132136	---
Sample Date		Client Info		11 Jan 2024	18 May 2022	---
Machine Age	hrs	Client Info		1366	646	---
Oil Age	hrs	Client Info		1366	646	---
Filter Age	hrs	Client Info		0	646	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The aluminum level is abnormal. All other metal levels are typical for a new component breaking in.

PQ		ASTM D8184	>100	24	25	---
Iron	ppm	ASTM D5185m	>61	59	43	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m		0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	1	---
Aluminum	ppm	ASTM D5185m	>20	▲ 74	▲ 61	---
Lead	ppm	ASTM D5185m	>9	<1	2	---
Copper	ppm	ASTM D5185m	>100	21	14	---
Tin	ppm	ASTM D5185m	>3	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

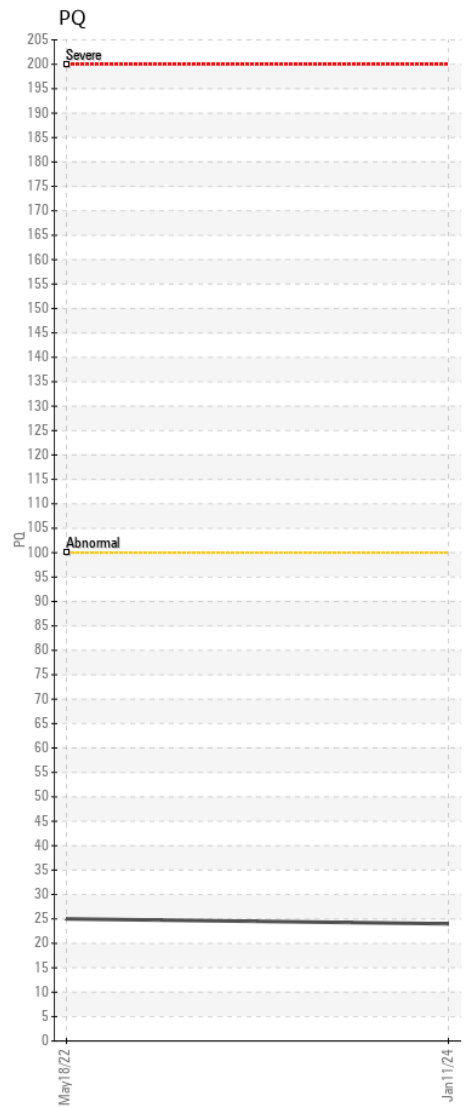
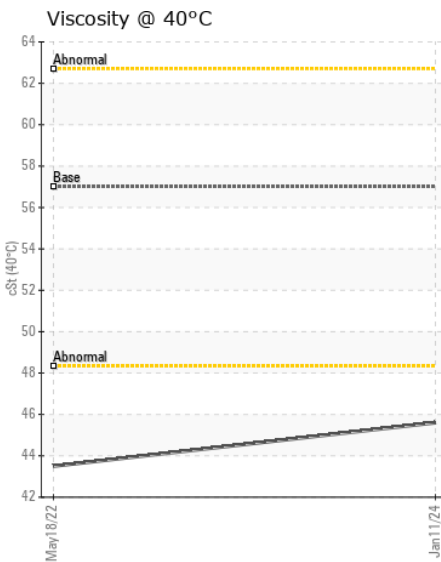
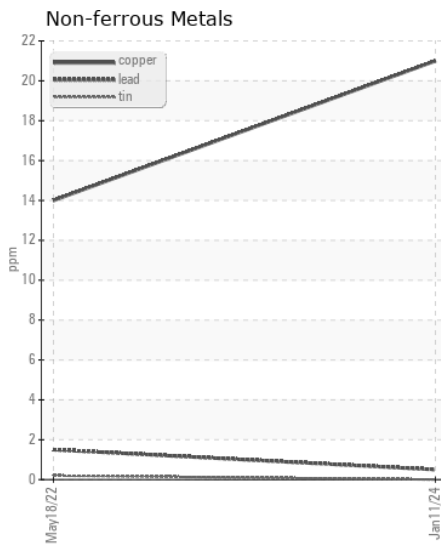
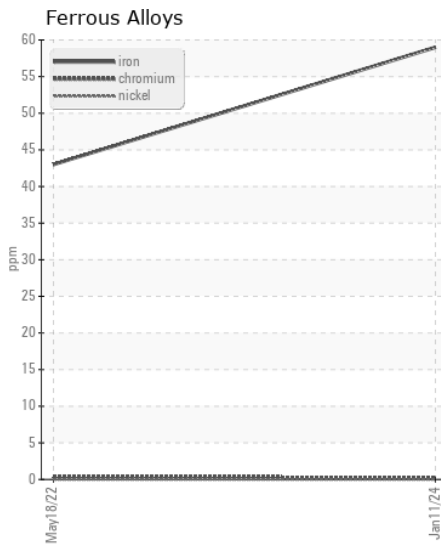
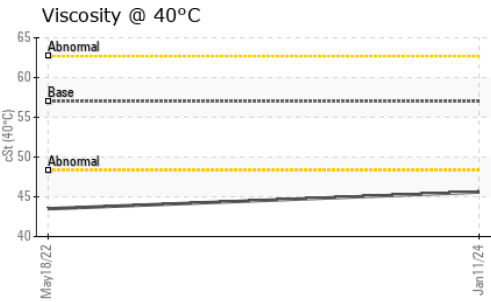
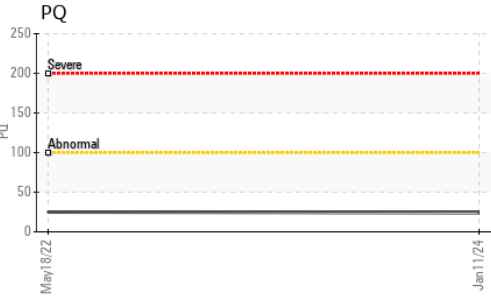
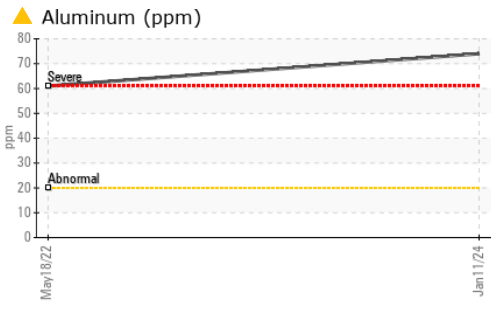
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>21	11	10	---
Potassium	ppm	ASTM D5185m	>20	3	3	---
Water		WC Method	>0.075	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	---

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>30	7	8	---
Boron	ppm	ASTM D5185m	6	16	22	---
Barium	ppm	ASTM D5185m	0	2	0	---
Molybdenum	ppm	ASTM D5185m	0	<1	<1	---
Manganese	ppm	ASTM D5185m		2	3	---
Magnesium	ppm	ASTM D5185m	145	88	94	---
Calcium	ppm	ASTM D5185m	3570	3409	3575	---
Phosphorus	ppm	ASTM D5185m	1290	1058	1068	---
Zinc	ppm	ASTM D5185m	1640	1226	1255	---
Sulfur	ppm	ASTM D5185m		3757	3248	---
Visc @ 40°C	cSt	ASTM D445	57.0	45.6	43.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0199085 **Received** : 17 Jan 2024
Lab Number : 06063811 **Diagnosed** : 20 Jan 2024
Unique Number : 10835193 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

NPL CONSTRUCTION
 7611 COPPERMINE DR
 MANASSAS, VA
 US 20109-2668
 Contact: BRANDON

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)

T:
F: