



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[05W47555]

Machine Id
JOHN DEERE PM061171

Component
Rear Differential

Fluid
JOHN DEERE HY-GARD HYD/TRANS (8 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: Check for water and metal shavings)

WEAR

All component wear rates are normal.

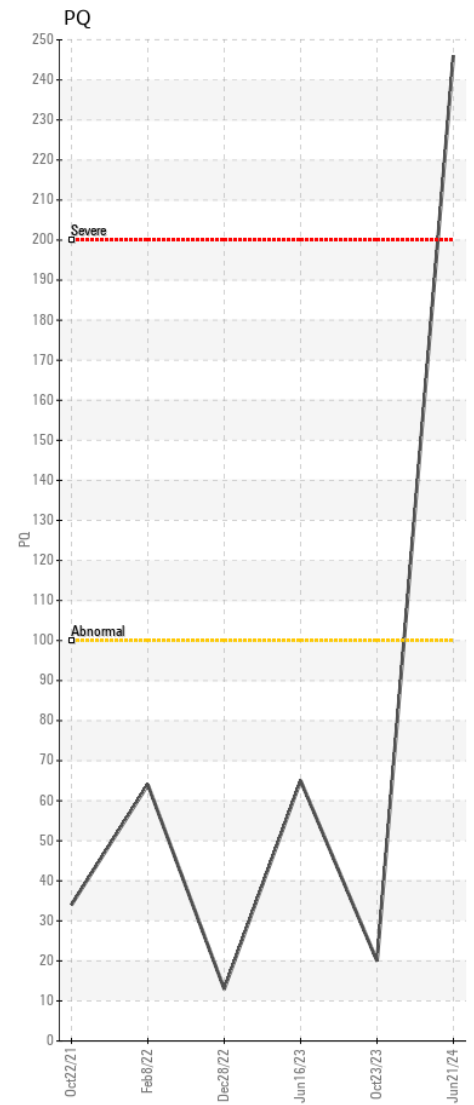
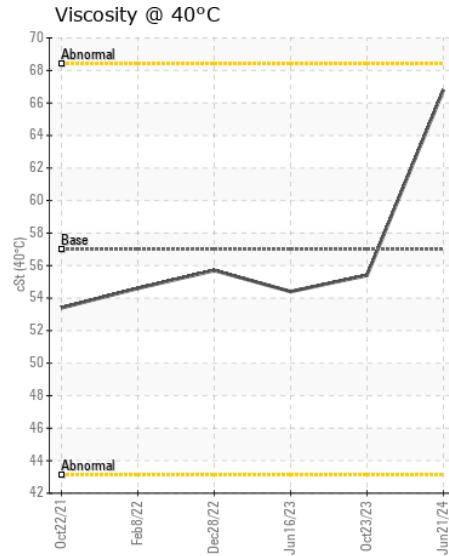
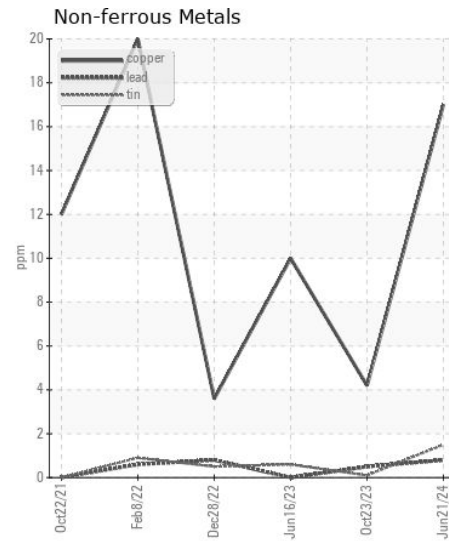
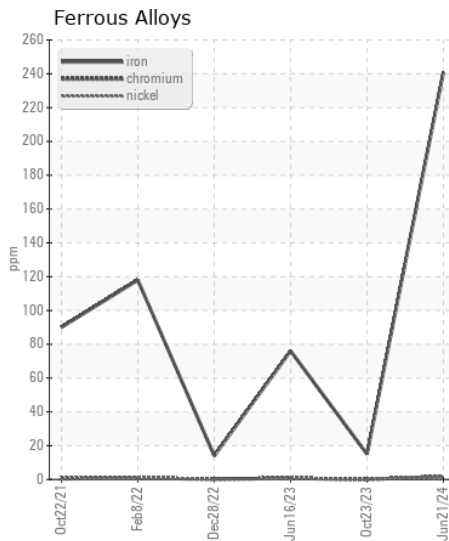
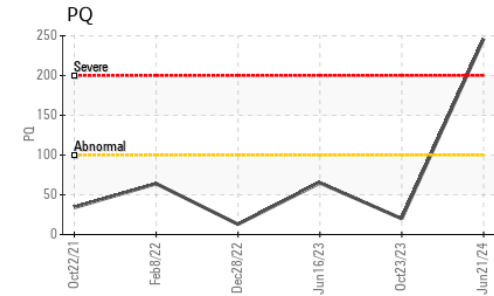
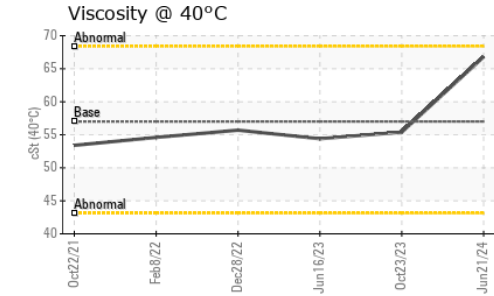
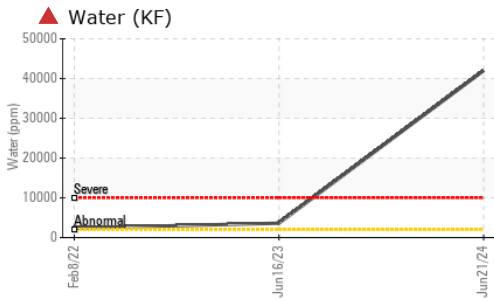
CONTAMINATION

Appearance is milky. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris 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		JR0218315	JR0190179	JR0176359
Sample Date		Client Info		21 Jun 2024	23 Oct 2023	16 Jun 2023
Machine Age	hrs	Client Info		2994	2451	1457
Oil Age	hrs	Client Info		1000	0	2000
Filter Age	hrs	Client Info		1000	0	1000
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				SEVERE	NORMAL	ABNORMAL
PQ		ASTM D8184		246	20	65
Iron	ppm	ASTM D5185m	>500	241	15	76
Chromium	ppm	ASTM D5185m	>10	2	0	<1
Nickel	ppm	ASTM D5185m	>10	2	0	<1
Titanium	ppm	ASTM D5185m		1	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	6	<1	<1
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>100	17	4	10
Tin	ppm	ASTM D5185m	>10	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	MODER	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	18	4	10
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	%	ASTM D6304	>.2	▲ 4.20	---	▲ 0.362
ppm Water	ppm	ASTM D6304	>2000	▲ 42000	---	▲ 3620
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE	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	>.2	▲ 0.2%	NEG	0.2%
Sodium	ppm	ASTM D5185m		7	<1	3
Boron	ppm	ASTM D5185m	6	32	8	11
Barium	ppm	ASTM D5185m	0	0	0	6
Molybdenum	ppm	ASTM D5185m	0	15	5	10
Manganese	ppm	ASTM D5185m		4	<1	2
Magnesium	ppm	ASTM D5185m	145	169	109	138
Calcium	ppm	ASTM D5185m	3570	3233	3150	3456
Phosphorus	ppm	ASTM D5185m	1290	1079	1023	1079
Zinc	ppm	ASTM D5185m	1640	1295	1209	1284
Sulfur	ppm	ASTM D5185m		3630	3610	4260
Visc @ 40°C	cSt	ASTM D445	57.0	66.8	55.4	54.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218315 **Received** : 25 Jun 2024
Lab Number : 06220017 **Tested** : 26 Jun 2024
Unique Number : 11098214 **Diagnosed** : 26 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF, PQ)

FITZGERALD EXCAVATING
 PO BOX 2168
 WINCHESTER, VA
 US 22604
 Contact: Service Manager

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: