



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

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. 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.

FLUID CONDITION

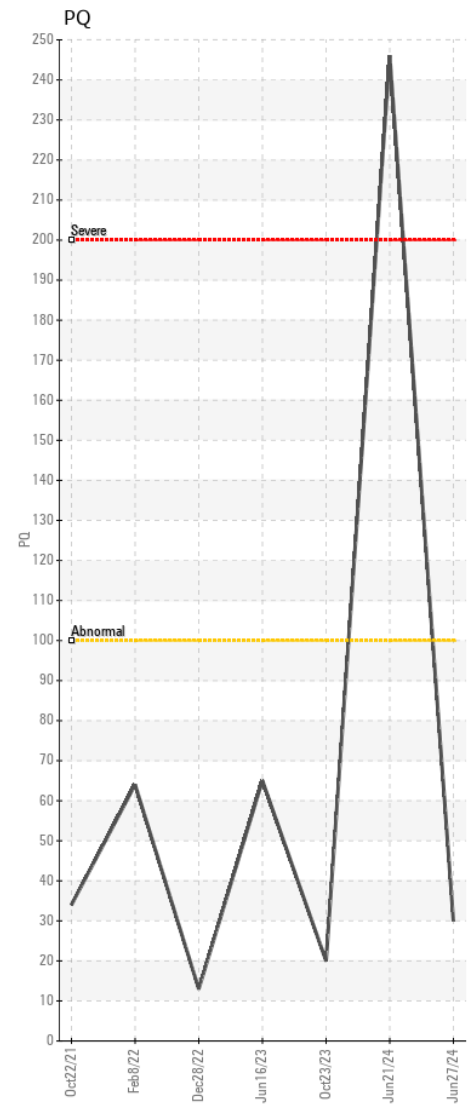
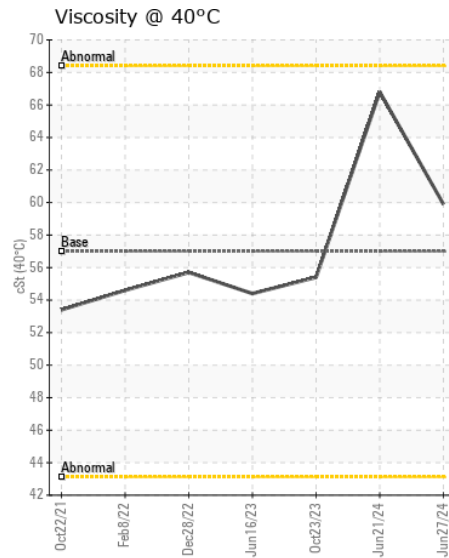
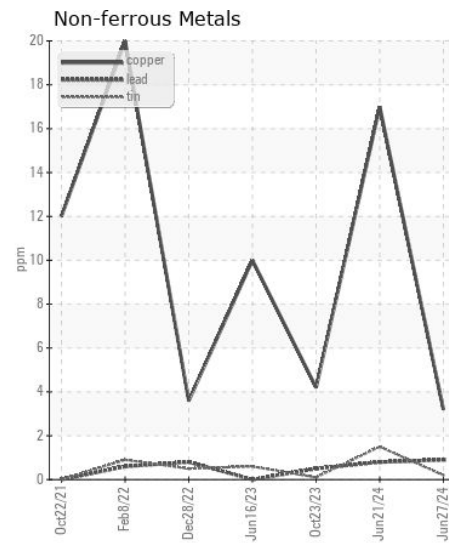
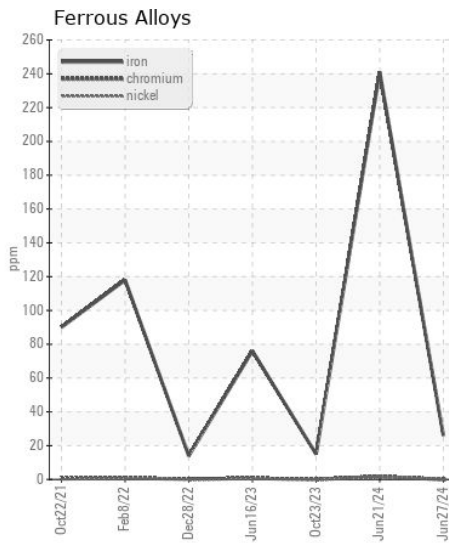
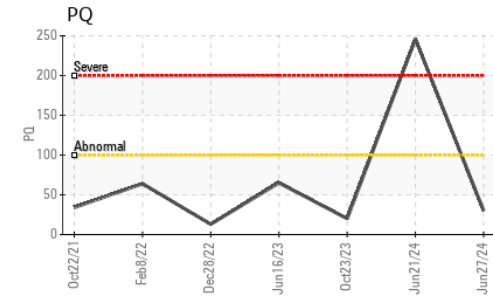
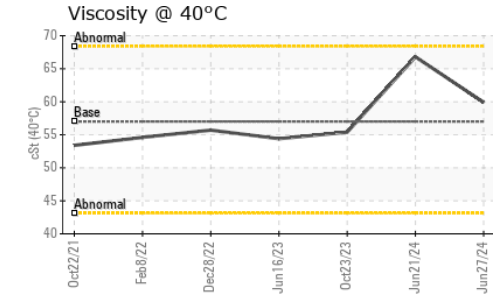
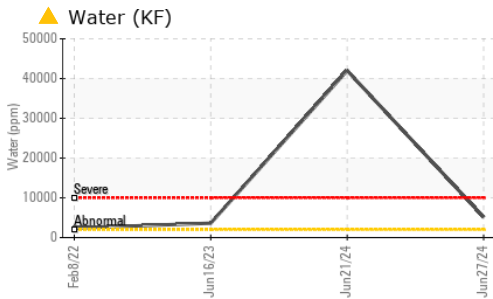
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0210444	JR0218315	JR0190179
Sample Date		Client Info		27 Jun 2024	21 Jun 2024	23 Oct 2023
Machine Age	hrs	Client Info		2996	2994	2451
Oil Age	hrs	Client Info		2	1000	0
Filter Age	hrs	Client Info		2	1000	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	SEVERE	NORMAL

PQ		ASTM D8184		30	246	20
Iron	ppm	ASTM D5185m	>500	26	241	15
Chromium	ppm	ASTM D5185m	>10	0	2	0
Nickel	ppm	ASTM D5185m	>10	<1	2	0
Titanium	ppm	ASTM D5185m		0	1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	2	6	<1
Lead	ppm	ASTM D5185m	>25	<1	<1	<1
Copper	ppm	ASTM D5185m	>100	3	17	4
Tin	ppm	ASTM D5185m	>10	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	6	18	4
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>.2	▲ 0.514	▲ 4.20	---
ppm Water	ppm	ASTM D6304	>2000	▲ 5140	▲ 42000	---
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	NORML	● MILKY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	▲ 0.2%	▲ 0.2%	NEG

Sodium	ppm	ASTM D5185m		2	7	<1
Boron	ppm	ASTM D5185m	6	13	32	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	13	15	5
Manganese	ppm	ASTM D5185m		1	4	<1
Magnesium	ppm	ASTM D5185m	145	141	169	109
Calcium	ppm	ASTM D5185m	3570	3375	3233	3150
Phosphorus	ppm	ASTM D5185m	1290	1107	1079	1023
Zinc	ppm	ASTM D5185m	1640	1318	1295	1209
Sulfur	ppm	ASTM D5185m		4520	3630	3610
Visc @ 40°C	cSt	ASTM D445	57.0	59.9	66.8	55.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0210444 **Received** : 08 Jul 2024
Lab Number : 06230456 **Tested** : 10 Jul 2024
Unique Number : 11113949 **Diagnosed** : 10 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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

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)

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F: