



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 318G 1T0318GAPLJ386793
 Component
Left Chain Drive
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0201469	JR0160596	JR0135693
Sample Date		Client Info		04 Jan 2024	28 Mar 2023	26 Jul 2022
Machine Age	hrs	Client Info		4115	3058	2176
Oil Age	hrs	Client Info		1057	882	1337
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	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		135	381	646
Iron	ppm	ASTM D5185m	>200	188	▲ 401	299
Chromium	ppm	ASTM D5185m	>10	1	2	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	3
Titanium	ppm	ASTM D5185m		<1	2	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		4	▲ 18	6
Lead	ppm	ASTM D5185m		<1	<1	<1
Copper	ppm	ASTM D5185m		14	3	<1
Tin	ppm	ASTM D5185m		<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

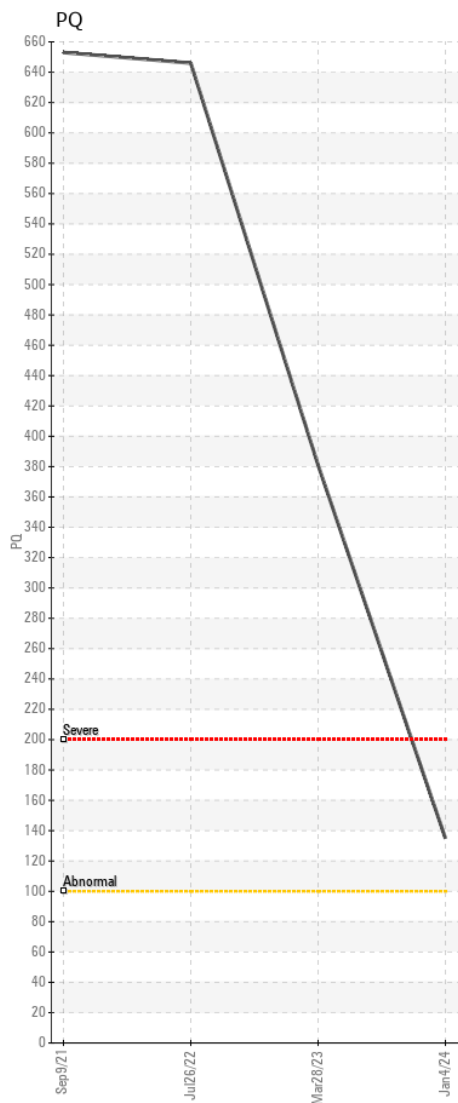
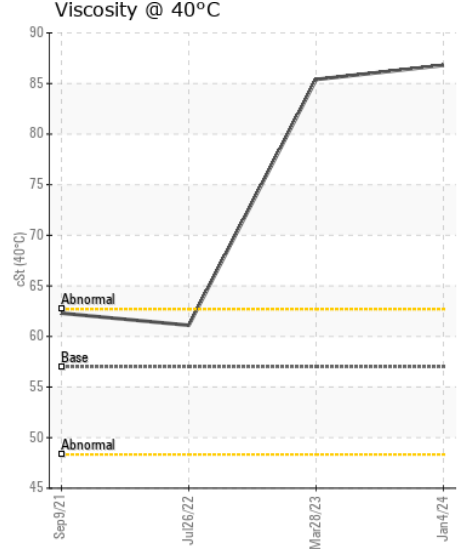
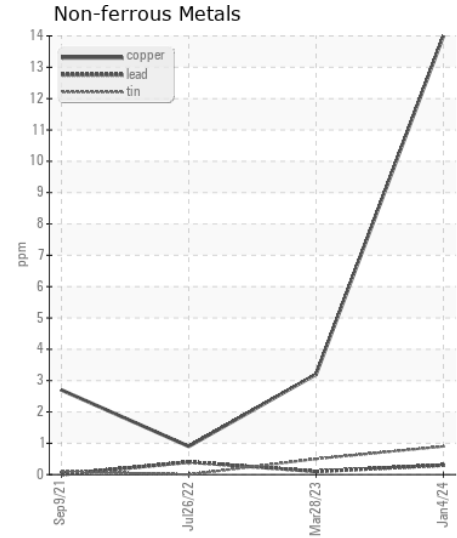
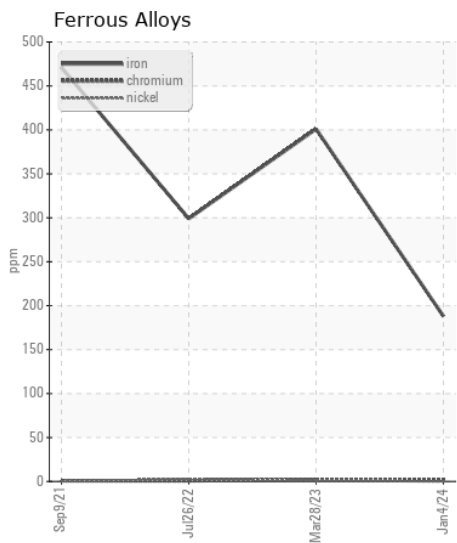
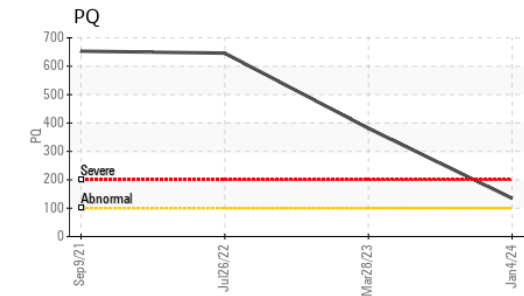
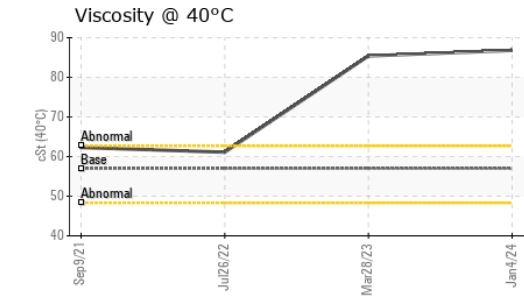
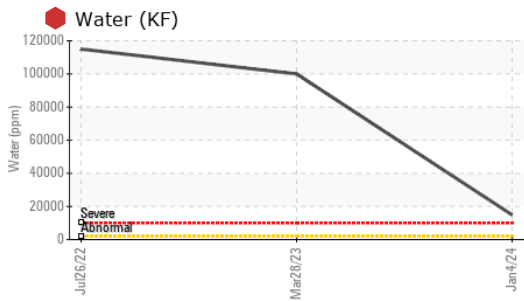
There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m		17	▲ 50	19
Potassium	ppm	ASTM D5185m	>20	2	9	4
Water	%	ASTM D6304	>0.2	🔴 1.49	🔴 10.0	🔴 11.5
ppm Water	ppm	ASTM D6304	>2000	🔴 14900	🔴 100000	🔴 115000
Silt	scalar	*Visual	NONE	LIGHT	▲ HEAVY	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ MILKY	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	🔴 0.2%	🔴 0.2%	🔴 0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		20	59	31
Boron	ppm	ASTM D5185m	6	4	36	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		2	3	2
Magnesium	ppm	ASTM D5185m	145	82	78	71
Calcium	ppm	ASTM D5185m	3570	1612	2219	1996
Phosphorus	ppm	ASTM D5185m	1290	709	965	1040
Zinc	ppm	ASTM D5185m	1640	754	1191	1294
Sulfur	ppm	ASTM D5185m		6861	3527	4363
Visc @ 40°C	cSt	ASTM D445	57.0	86.8	85.4	61.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0201469 **Received** : 16 Jan 2024
Lab Number : 06062206 **Diagnosed** : 18 Jan 2024
Unique Number : 10833588 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

JRE - ASHEVILLE
 101 BRUCE DRIVE
 ASHEVILLE, NC
 US 28806

Contact: Randy Warren
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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)