



Machine Id
JOHN DEERE 318G 1T0318GAPLJ386793
Component
Right 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		JR0201468	JR0160585	JR0135694
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

Gear wear is indicated.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		117	163	108
Iron	ppm	ASTM D5185m	>200	▲ 209	70	74
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	2
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		6	1	2
Lead	ppm	ASTM D5185m		1	0	<1
Copper	ppm	ASTM D5185m		17	2	<1
Tin	ppm	ASTM D5185m		4	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

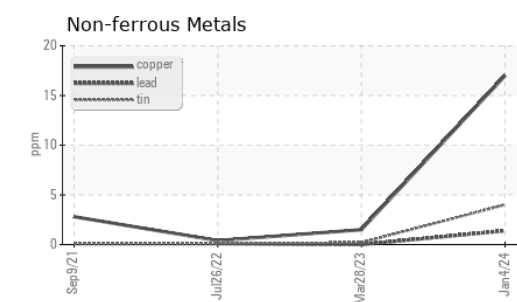
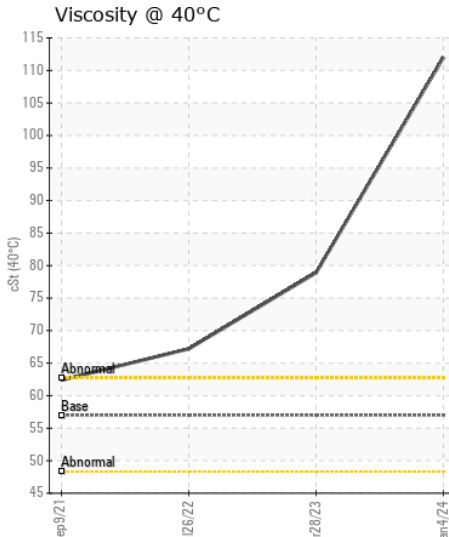
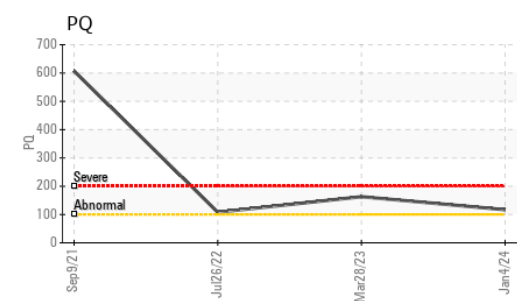
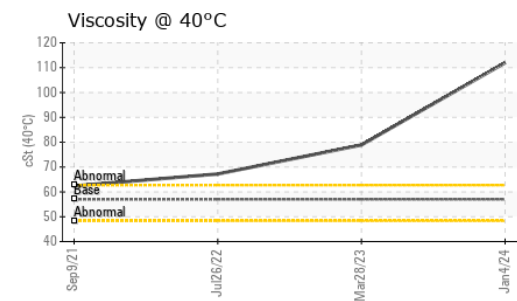
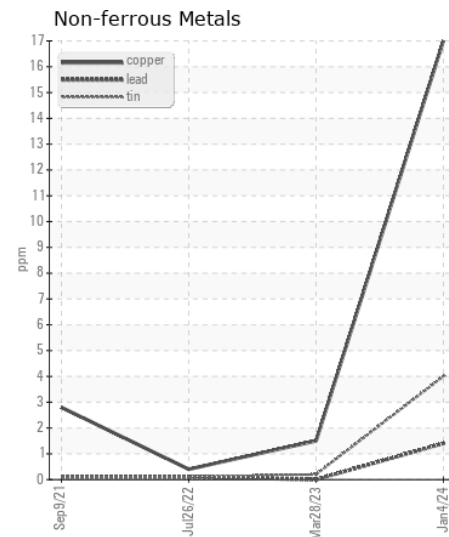
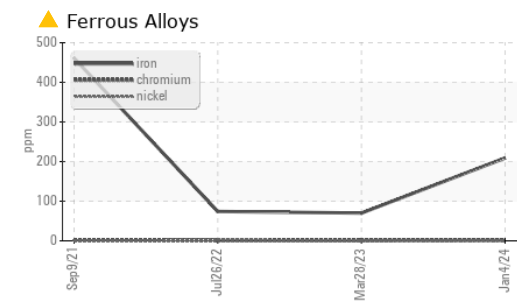
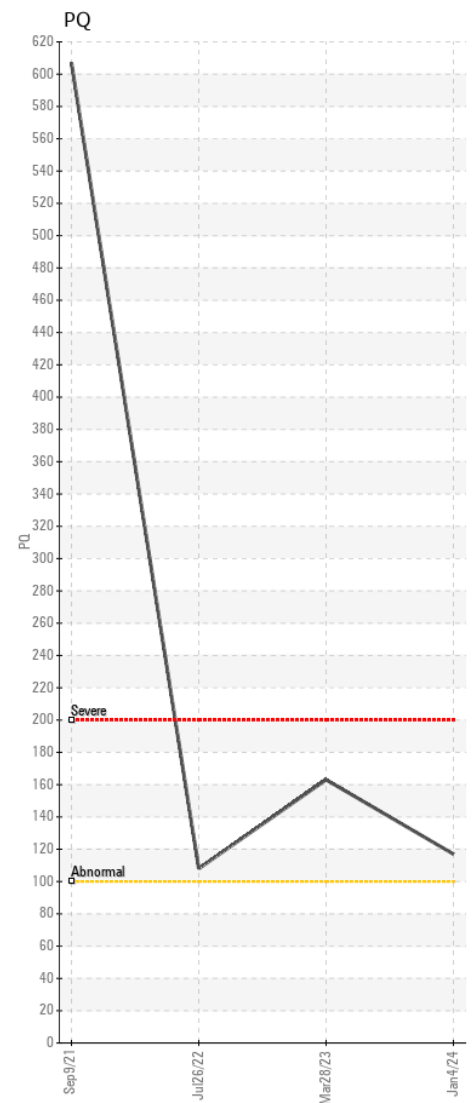
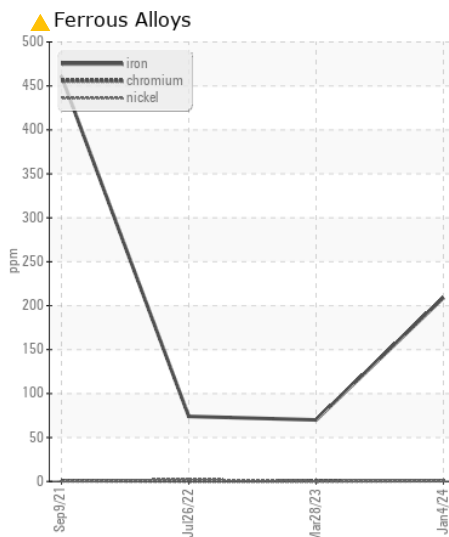
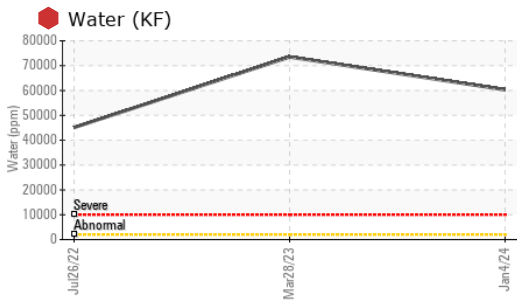
There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m		13	6	8
Potassium	ppm	ASTM D5185m	>20	6	4	24
Water	%	ASTM D6304	>0.2	◆ 6.03	◆ 7.35	◆ 4.51
ppm Water	ppm	ASTM D6304	>2000	◆ 60300	◆ 73500	◆ 45100
Silt	scalar	*Visual	NONE	LIGHT	▲ HEAVY	MODER
Debris	scalar	*Visual	NONE	NONE	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		40	7	4
Boron	ppm	ASTM D5185m	6	2	3	12
Barium	ppm	ASTM D5185m	0	0	0	12
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		2	<1	1
Magnesium	ppm	ASTM D5185m	145	21	58	89
Calcium	ppm	ASTM D5185m	3570	760	2359	3237
Phosphorus	ppm	ASTM D5185m	1290	539	977	1057
Zinc	ppm	ASTM D5185m	1640	526	1212	1377
Sulfur	ppm	ASTM D5185m		7167	3286	4700
Visc @ 40°C	cSt	ASTM D445	57.0	112	78.9	67.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0201468 **Received** : 16 Jan 2024
Lab Number : 06062207 **Diagnosed** : 18 Jan 2024
Unique Number : 10833589 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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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)