



Machine Id
JOHN DEERE 470G 1FF470GXJJF235253

Component
Left Final Drive

Fluid
GEAR OIL SAE 80W140 (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

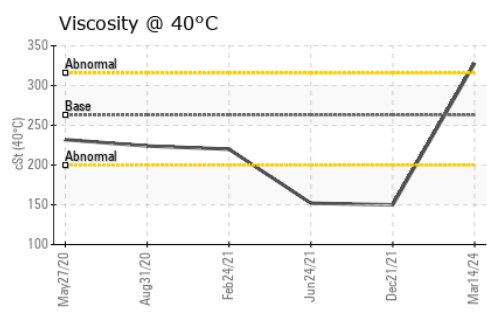
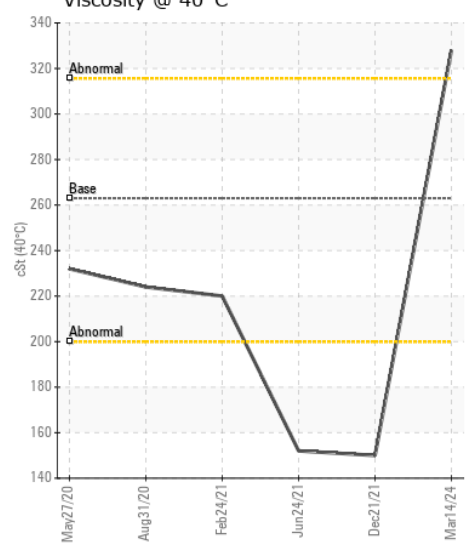
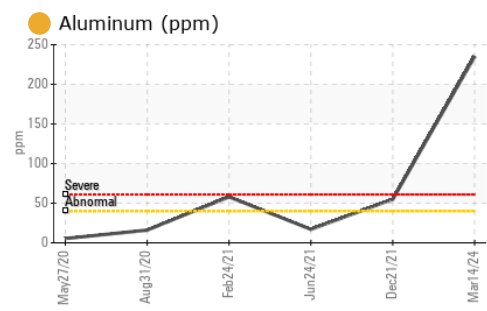
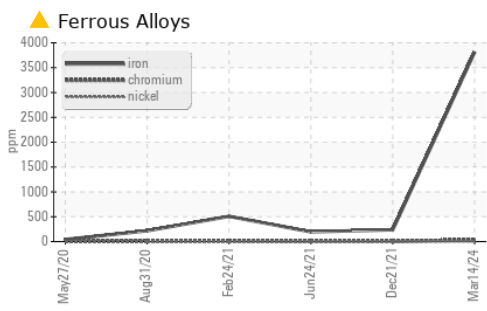
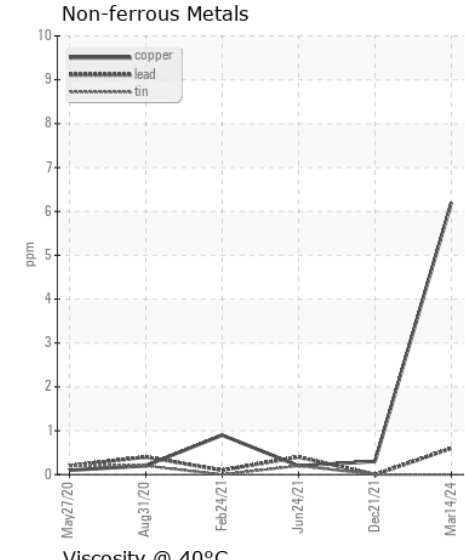
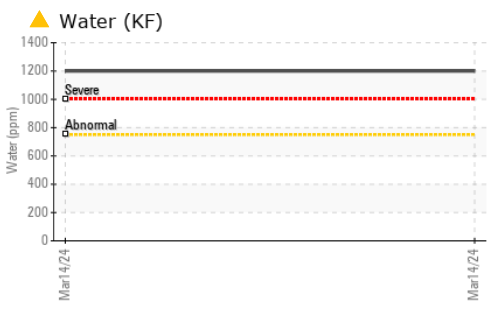
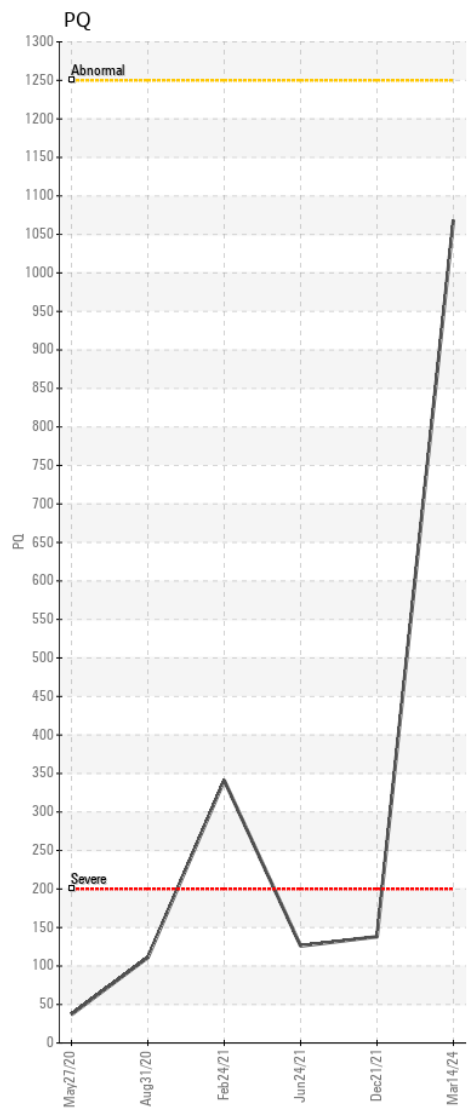
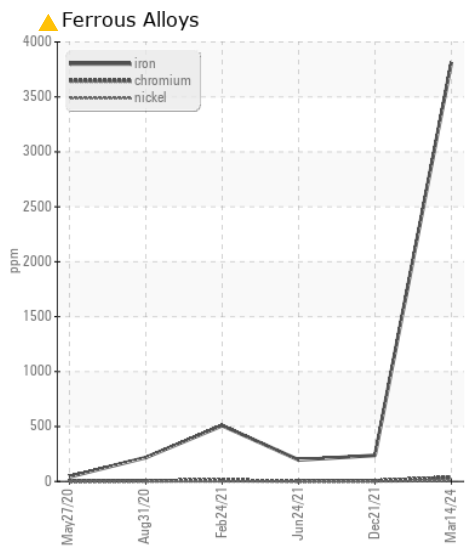
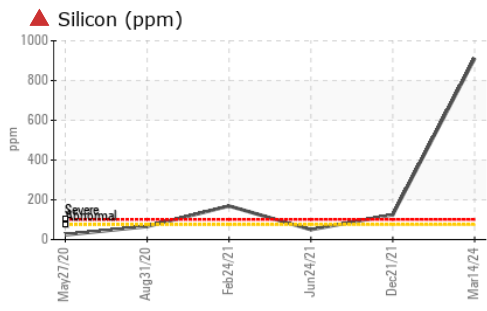
CONTAMINATION

There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

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		JR0204152	JR0113750	JR0087268
Sample Date		Client Info		14 Mar 2024	21 Dec 2021	24 Jun 2021
Machine Age	hrs	Client Info		6231	3536	0
Oil Age	hrs	Client Info		2695	500	500
Filter Age	hrs	Client Info		0	500	500
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	ABNORMAL	NORMAL
PQ		ASTM D8184	>1250	1068	138	126
Iron	ppm	ASTM D5185m	>750	▲ 3813	237	196
Chromium	ppm	ASTM D5185m	>9	▲ 37	5	3
Nickel	ppm	ASTM D5185m	>10	4	<1	<1
Titanium	ppm	ASTM D5185m		18	4	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 235	● 55	17
Lead	ppm	ASTM D5185m	>15	<1	0	<1
Copper	ppm	ASTM D5185m	>40	6	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 911	▲ 125	50
Potassium	ppm	ASTM D5185m	>20	39	7	4
Water	%	ASTM D6304	>0.075	▲ 0.120	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 1200	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	19	4	<1
Boron	ppm	ASTM D5185m	400	45	41	41
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	4	2	2
Manganese	ppm	ASTM D5185m		33	3	2
Magnesium	ppm	ASTM D5185m	12	27	9	6
Calcium	ppm	ASTM D5185m	150	46	26	22
Phosphorus	ppm	ASTM D5185m	1650	349	431	471
Zinc	ppm	ASTM D5185m	125	17	8	8
Sulfur	ppm	ASTM D5185m	22500	19298	18576	18209
Visc @ 40°C	cSt	ASTM D445	263	328	150	152



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204152 **Received** : 19 Mar 2024
Lab Number : 06122716 **Tested** : 20 Mar 2024
Unique Number : 10936867 **Diagnosed** : 21 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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 F: (704)596-6198

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)