



Machine Id
JOHN DEERE 470G 1FF470GXLJF236036
Component
Right Final Drive
Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. 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

Iron ppm levels are noted. Aluminum and chromium ppm levels are marginal. All other component wear rates are normal.

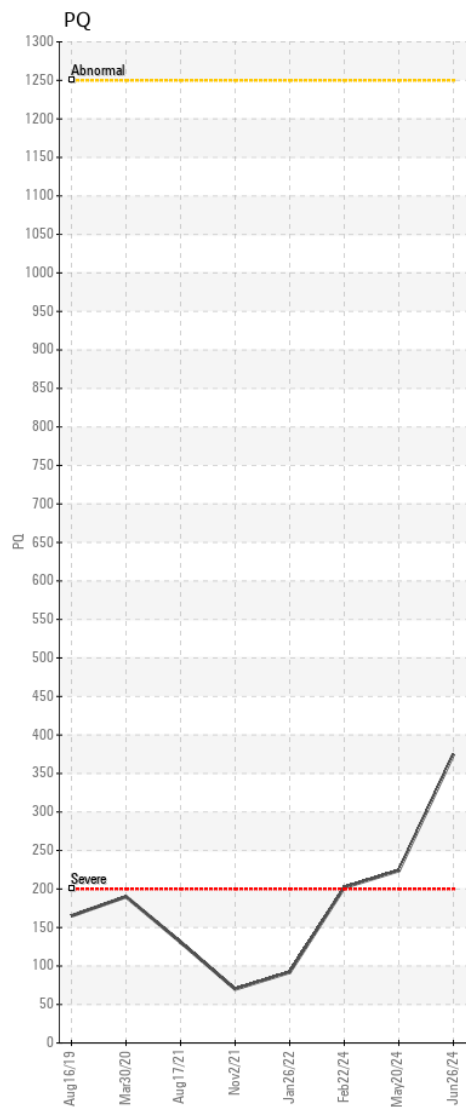
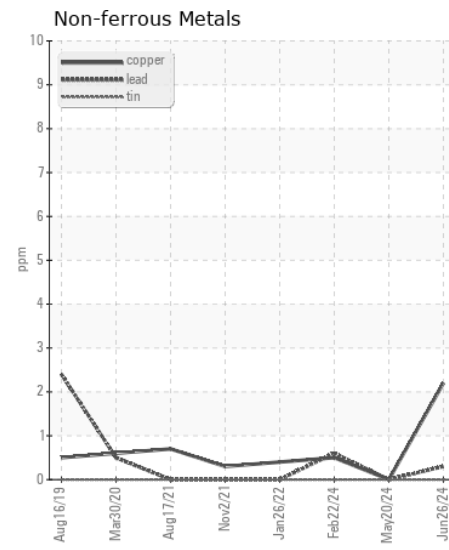
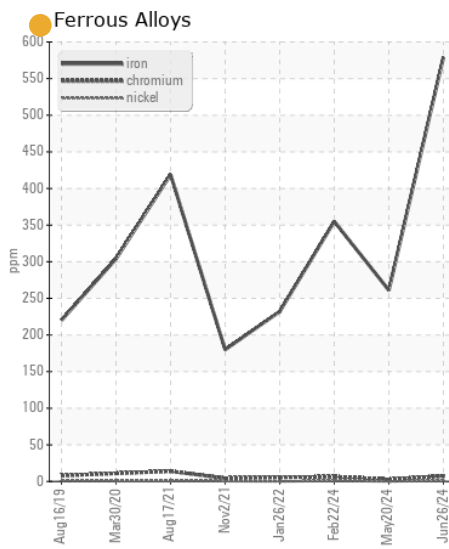
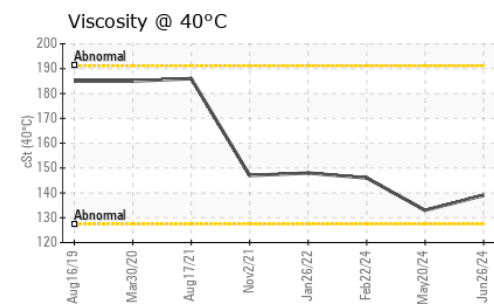
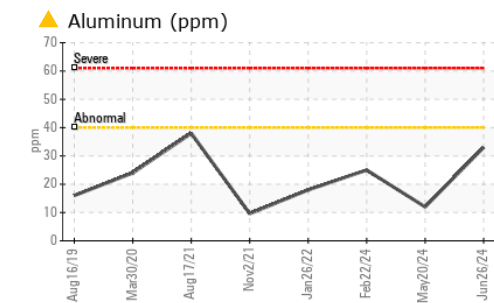
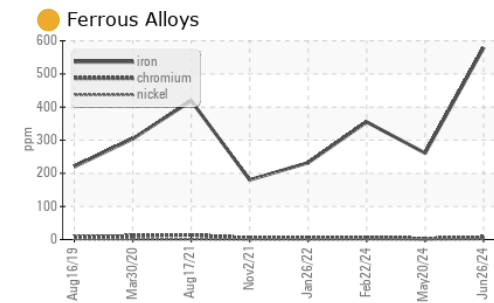
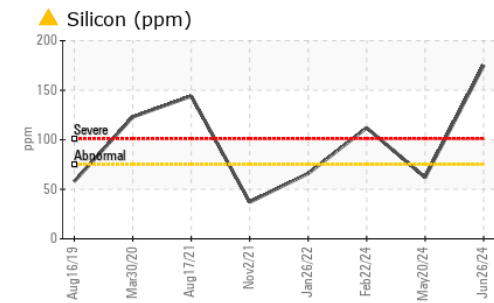
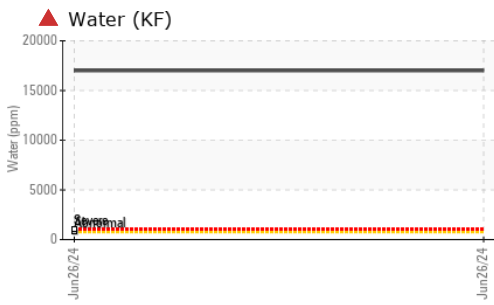
CONTAMINATION

There is a high concentration of water present in the oil. There is a moderate concentration of dirt 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		JR0214057	JR0213884	JR0200808
Sample Date		Client Info		26 Jun 2024	20 May 2024	22 Feb 2024
Machine Age	hrs	Client Info		5696	5542	5149
Oil Age	hrs	Client Info		5303	393	5149
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL
PQ		ASTM D8184	>1250	375	224	202
Iron	ppm	ASTM D5185m	>750	579	261	355
Chromium	ppm	ASTM D5185m	>9	7	3	6
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		2	<1	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	33	12	25
Lead	ppm	ASTM D5185m	>15	<1	0	<1
Copper	ppm	ASTM D5185m	>40	2	0	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	175	62	112
Potassium	ppm	ASTM D5185m	>20	20	4	11
Water	%	ASTM D6304	>0.075	1.70	---	---
ppm Water	ppm	ASTM D6304	>750	17000	---	---
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	MILKY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	20	4	3
Boron	ppm	ASTM D5185m		45	24	157
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		1	0	<1
Manganese	ppm	ASTM D5185m		6	2	4
Magnesium	ppm	ASTM D5185m		10	2	0
Calcium	ppm	ASTM D5185m		123	28	26
Phosphorus	ppm	ASTM D5185m		610	589	1084
Zinc	ppm	ASTM D5185m		63	14	0
Sulfur	ppm	ASTM D5185m		19180	20258	24661
Visc @ 40°C	cSt	ASTM D445		139	133	146



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0214057
Lab Number : 06222513
Unique Number : 11100710
Test Package : CONST (Additional Tests: KF, PQ)

Received : 27 Jun 2024
Tested : 28 Jun 2024
Diagnosed : 28 Jun 2024 - Angela Borella

JRE - GREENVILLE
 3604 HIGHWAY 264 E
 GREENVILLE, NC
 US 27834-5800

Contact: GREENVILLE SHOP
 christopher.martin@jamesriverequipment.com

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: