



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 300G 1FF300GXLJF730977
 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. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

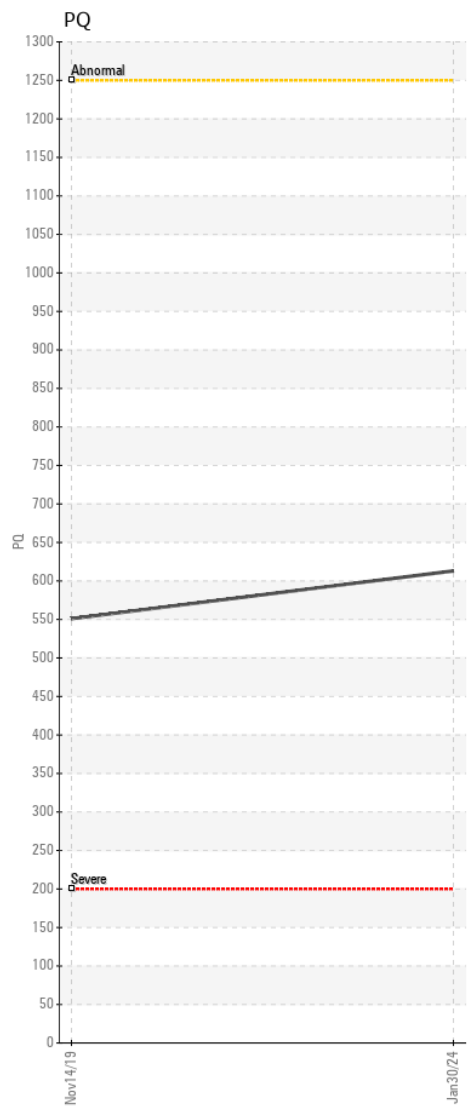
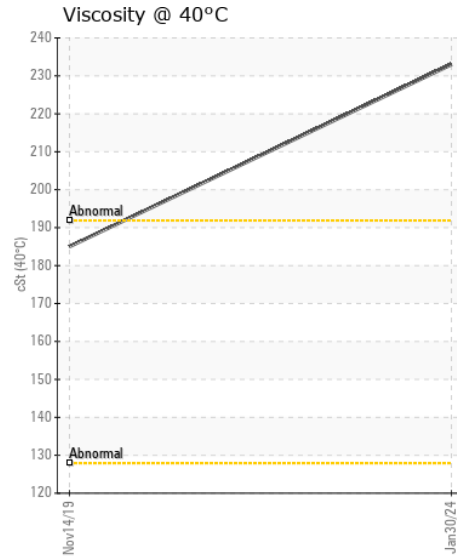
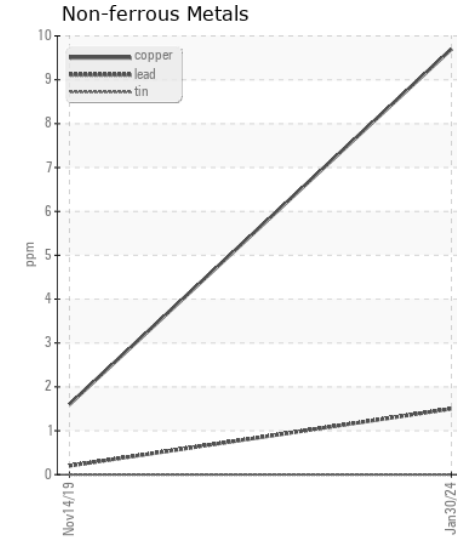
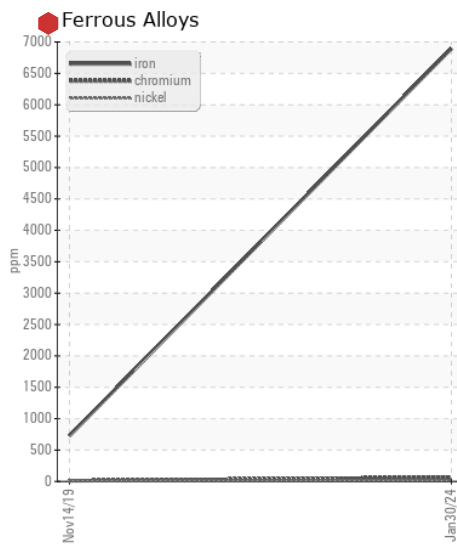
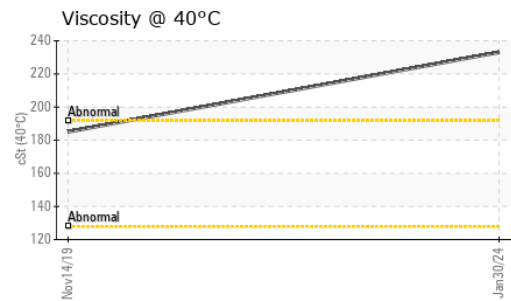
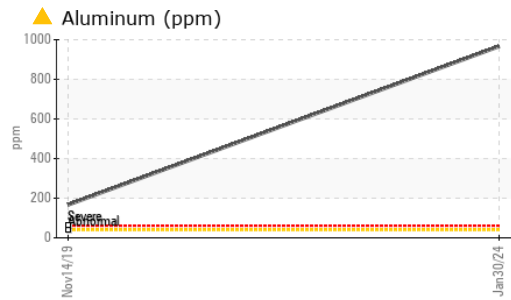
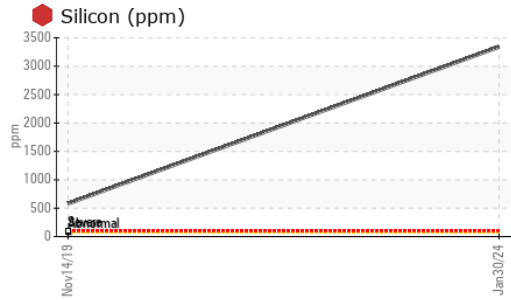
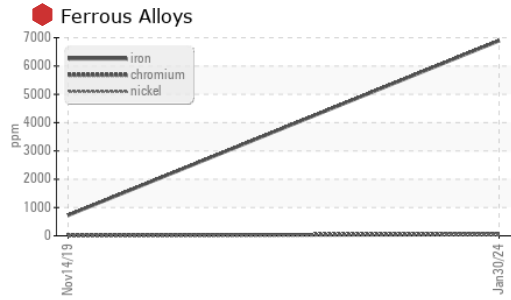
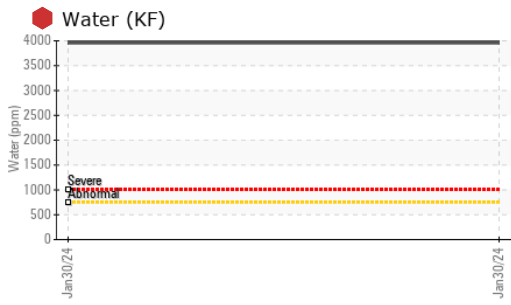
CONTAMINATION

There is a high 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		JR0185055	JR0032417	---
Sample Date		Client Info		30 Jan 2024	14 Nov 2019	---
Machine Age	hrs	Client Info		2339	572	---
Oil Age	hrs	Client Info		2339	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	SEVERE	---
PQ		ASTM D8184	>1250	613	551	---
Iron	ppm	ASTM D5185m	>750	6894	726	---
Chromium	ppm	ASTM D5185m	>9	65	10	---
Nickel	ppm	ASTM D5185m	>10	23	4	---
Titanium	ppm	ASTM D5185m		59	11	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>40	966	166	---
Lead	ppm	ASTM D5185m	>15	2	<1	---
Copper	ppm	ASTM D5185m	>40	10	2	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		2	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	3337	578	---
Potassium	ppm	ASTM D5185m	>20	315	58	---
Water	%	ASTM D6304	>0.075	0.396	---	---
ppm Water	ppm	ASTM D6304	>750	3960	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	0.2%	NEG	---
Sodium	ppm	ASTM D5185m	>51	68	11	---
Boron	ppm	ASTM D5185m		91	59	---
Barium	ppm	ASTM D5185m		14	8	---
Molybdenum	ppm	ASTM D5185m		5	0	---
Manganese	ppm	ASTM D5185m		59	10	---
Magnesium	ppm	ASTM D5185m		49	8	---
Calcium	ppm	ASTM D5185m		66	25	---
Phosphorus	ppm	ASTM D5185m		554	463	---
Zinc	ppm	ASTM D5185m		44	22	---
Sulfur	ppm	ASTM D5185m		50798	5343	---
Visc @ 40°C	cSt	ASTM D445		233	185	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0185055 **Received** : 01 Feb 2024
Lab Number : 06077158 **Diagnosed** : 03 Feb 2024
Unique Number : 10859249 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

JRE - ASHEVILLE
 101 BRUCE DRIVE
 ASHEVILLE, NC
 US 28806
 Contact: Randy Warren
 randy.warren@jamesriverequipment.com
 T: (528)667-0176
 F: (828)667-4865

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)