



Machine Id
JOHN DEERE 50G 1FF050GXVFH283239

Component
Left Final Drive

Fluid
JOHN DEERE GL-5 80W90 (1 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0194221	JR0194222	JRMC393894
Sample Date		Client Info		16 Jan 2024	16 Jan 2024	30 Nov 2018
Machine Age	hrs	Client Info		1355	1355	2456
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	SEVERE	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184	>1250	68	359	93
Iron	ppm	ASTM D5185m	>750	▲ 1190	▲ 2322	▲ 1192
Chromium	ppm	ASTM D5185m	>9	▲ 17	▲ 31	▲ 23
Nickel	ppm	ASTM D5185m	>10	4	10	3
Titanium	ppm	ASTM D5185m		2	7	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	▲ 32	▲ 124	11
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	5	9	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

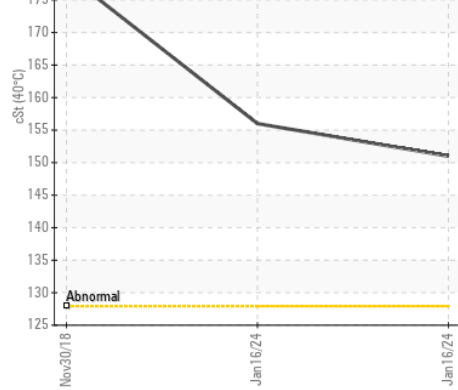
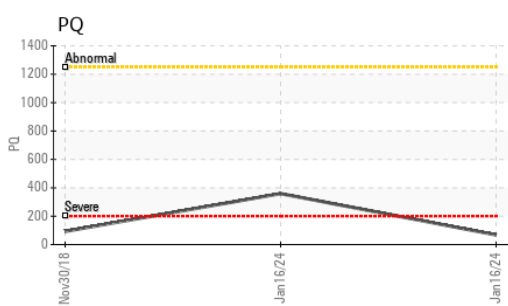
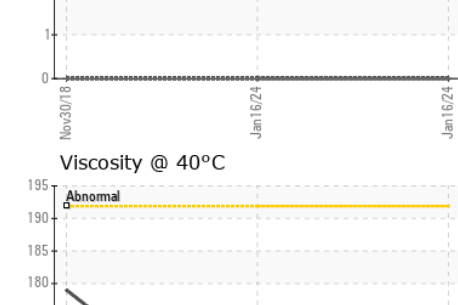
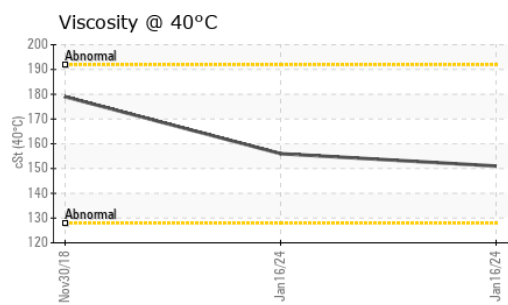
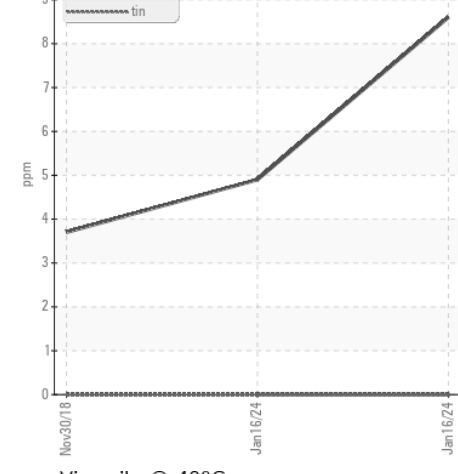
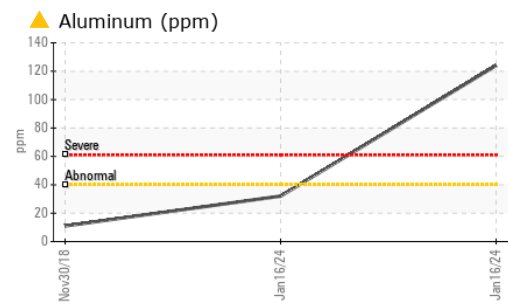
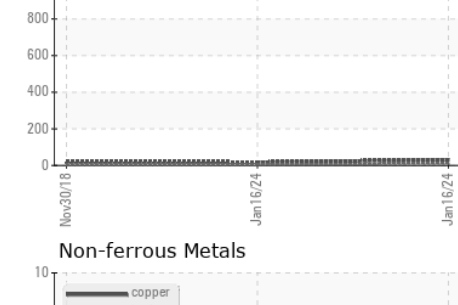
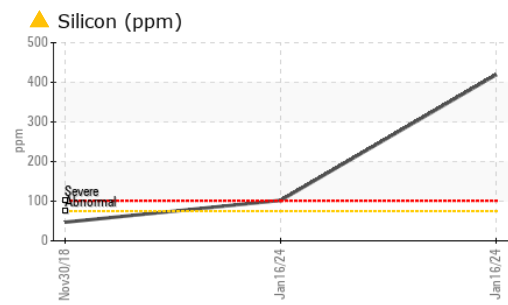
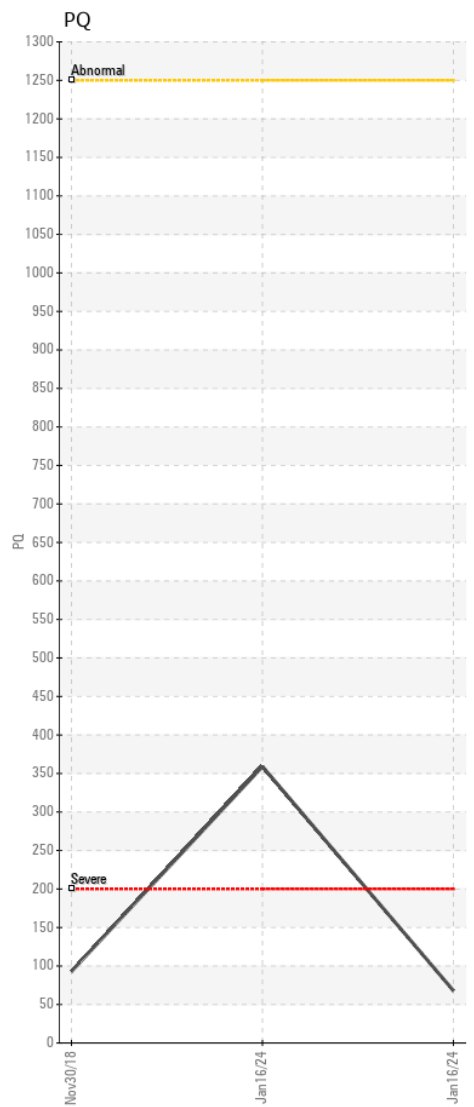
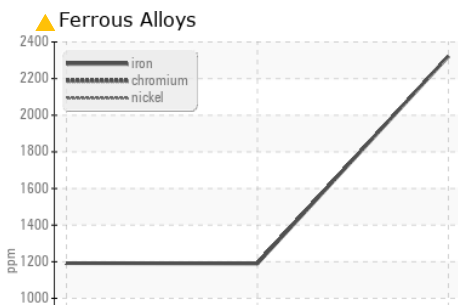
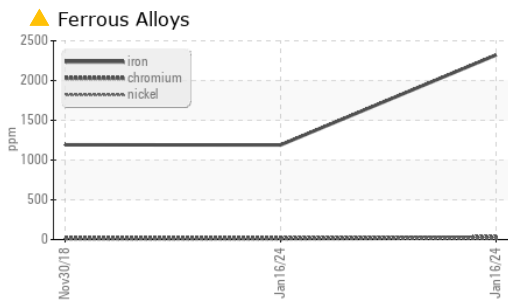
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 102	419	47
Potassium	ppm	ASTM D5185m	>20	4	15	3
Water		WC Method	>0.075	NEG	NEG	NEG
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	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	9	26	7
Boron	ppm	ASTM D5185m		128	117	27
Barium	ppm	ASTM D5185m		2	4	9
Molybdenum	ppm	ASTM D5185m		<1	2	0
Manganese	ppm	ASTM D5185m		14	24	18
Magnesium	ppm	ASTM D5185m		6	16	3
Calcium	ppm	ASTM D5185m		74	34	12
Phosphorus	ppm	ASTM D5185m		906	839	305
Zinc	ppm	ASTM D5185m		169	170	233
Sulfur	ppm	ASTM D5185m		17799	17888	11038
Visc @ 40°C	cSt	ASTM D445		151	156	179.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0194221 **Received** : 17 Jan 2024
Lab Number : 06063077 **Diagnosed** : 19 Jan 2024
Unique Number : 10834459 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

JRE - GREENSBORO
 411 SOUTH REGIONAL ROAD
 GREENSBORO, NC
 US 27409
 Contact: JUSTIN WILLIAMS
 justin.williams@jamesriverequipment.com
 T: (336)668-2762
 F: (336)665-9556

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)