



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[LARRY ROYSTON]
 Machine Id
JOHN DEERE 325G 1T0325GMVKJ355280
 Component
Left Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0195642	JR0112198	JR0052246
Sample Date		Client Info		03 Jan 2024	12 Jan 2022	24 Jul 2020
Machine Age	hrs	Client Info		1508	801	255
Oil Age	hrs	Client Info		0	0	255
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	ABNORMAL

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	447	89	196
Iron	ppm	ASTM D5185m	>750	2668	1645	1130
Chromium	ppm	ASTM D5185m	>9	29	22	16
Nickel	ppm	ASTM D5185m	>10	15	14	6
Titanium	ppm	ASTM D5185m		9	2	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	80	23	15
Lead	ppm	ASTM D5185m	>15	0	<1	<1
Copper	ppm	ASTM D5185m	>40	3	4	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		1	1	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

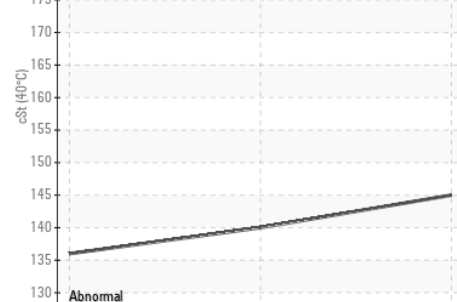
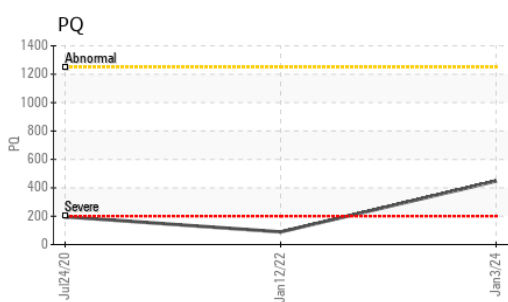
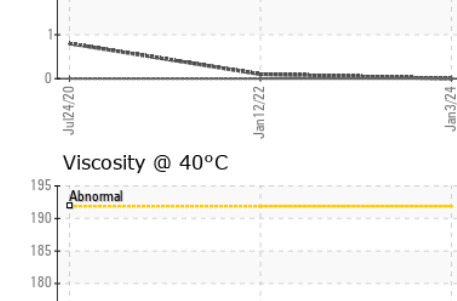
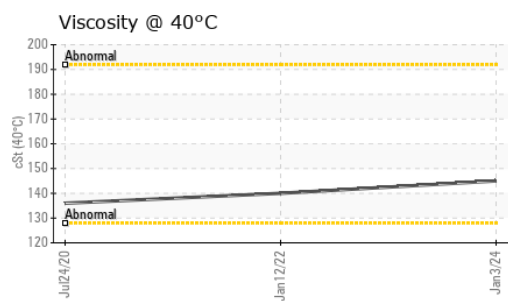
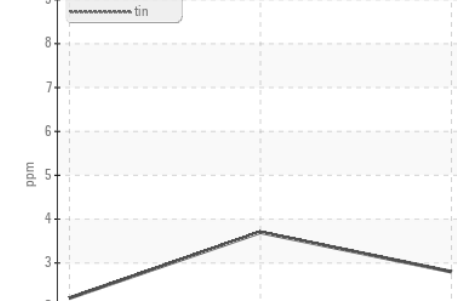
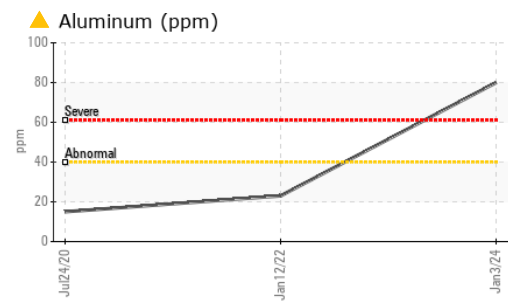
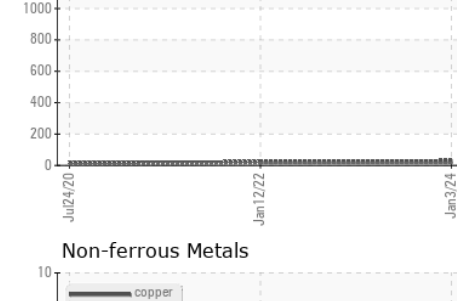
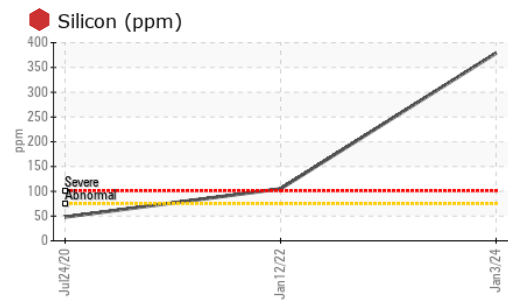
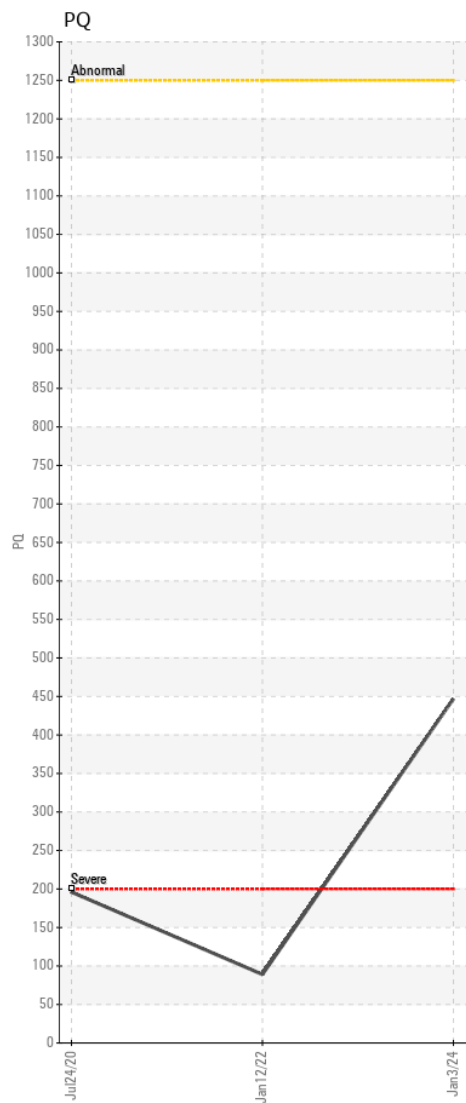
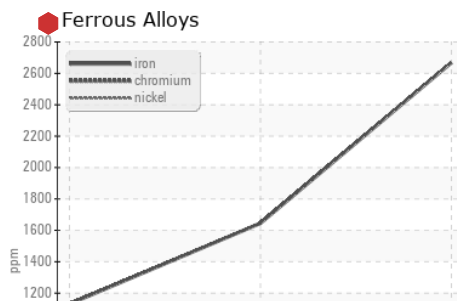
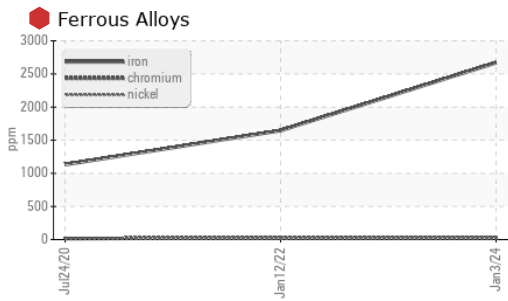
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	379	105	48
Potassium	ppm	ASTM D5185m	>20	37	26	31
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 oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	7	0	11
Boron	ppm	ASTM D5185m		26	50	52
Barium	ppm	ASTM D5185m		7	24	71
Molybdenum	ppm	ASTM D5185m		3	3	0
Manganese	ppm	ASTM D5185m		21	13	14
Magnesium	ppm	ASTM D5185m		15	7	8
Calcium	ppm	ASTM D5185m		31	69	40
Phosphorus	ppm	ASTM D5185m		267	352	755
Zinc	ppm	ASTM D5185m		2	26	33
Sulfur	ppm	ASTM D5185m		16922	16200	20402
Visc @ 40°C	cSt	ASTM D445		145	140	136



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195642 **Received** : 09 Jan 2024
Lab Number : 06056061 **Diagnosed** : 10 Jan 2024
Unique Number : 10822010 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)