



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[W34668]

Machine Id
JOHN DEERE 300G 9130 (S/N 1FF300GXTFF730247)

Component
Right 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		JR0139335	JR0055576	JR0053142
Sample Date		Client Info		29 Sep 2022	04 Aug 2020	17 Jun 2020
Machine Age	hrs	Client Info		7425	5028	4877
Oil Age	hrs	Client Info		500	0	877
Filter Age	hrs	Client Info		500	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	NORMAL	NORMAL

WEAR

Moderate concentration of visible metal present. Gear wear is indicated.

PQ		ASTM D8184	>1250	1679	83	59
Iron	ppm	ASTM D5185m	>500	▲ 5249	98	36
Chromium	ppm	ASTM D5185m	>10	▲ 39	<1	<1
Nickel	ppm	ASTM D5185m		7	0	<1
Titanium	ppm	ASTM D5185m		21	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 120	4	2
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>50	7	0	0
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		1	0	0
White Metal	scalar	*Visual	NONE	▲ MODER	VLITE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	VLITE

CONTAMINATION

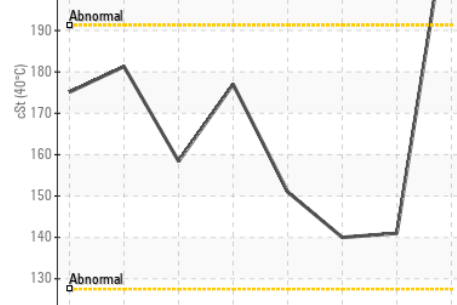
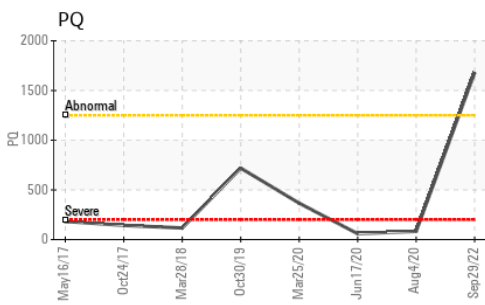
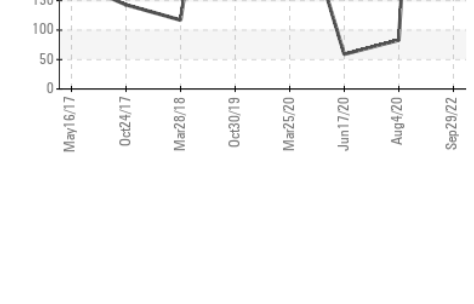
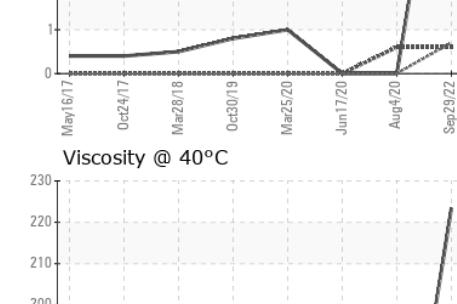
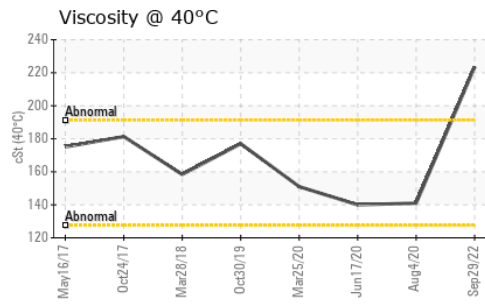
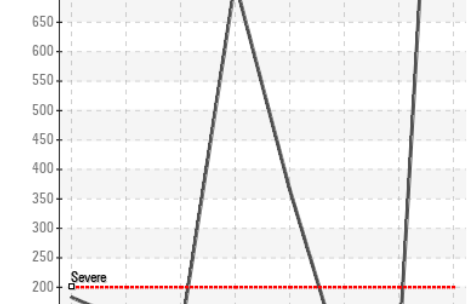
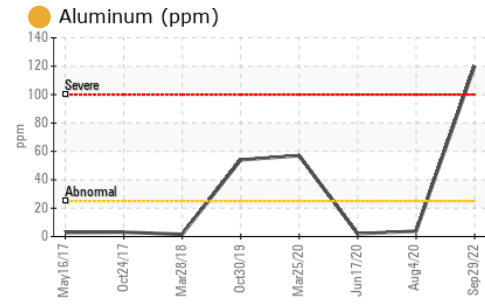
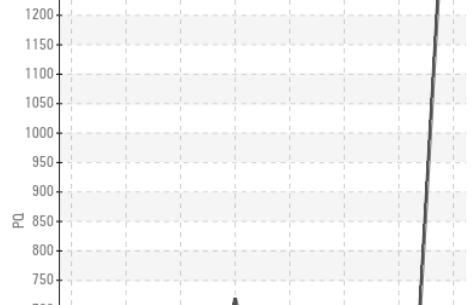
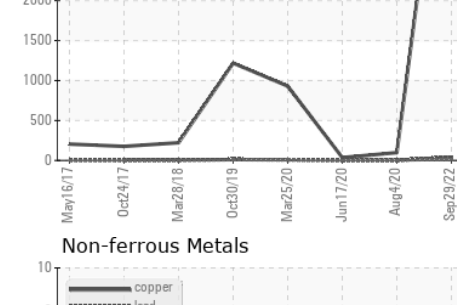
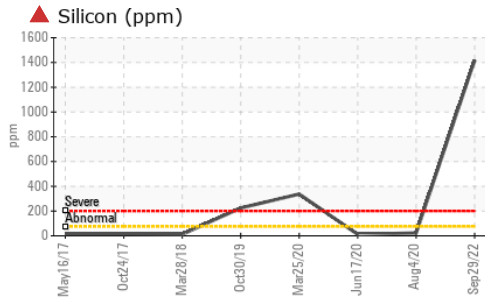
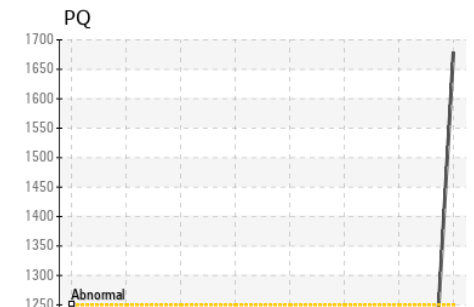
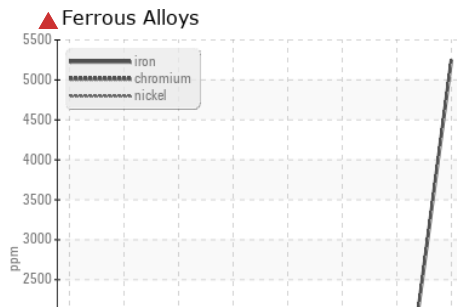
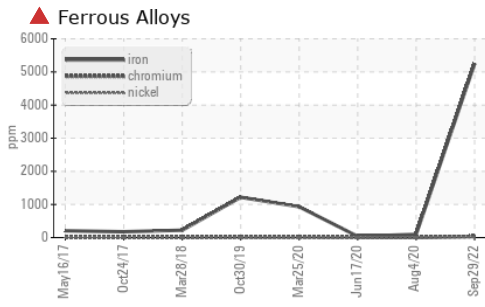
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 1418	23	12
Potassium	ppm	ASTM D5185m	>20	30	<1	<1
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	9	0	<1
Boron	ppm	ASTM D5185m		9	12	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	<1	0
Manganese	ppm	ASTM D5185m		36	<1	<1
Magnesium	ppm	ASTM D5185m		11	0	0
Calcium	ppm	ASTM D5185m		16	14	12
Phosphorus	ppm	ASTM D5185m		2316	312	285
Zinc	ppm	ASTM D5185m		27	13	8
Sulfur	ppm	ASTM D5185m		30087	18115	13349
Visc @ 40°C	cSt	ASTM D445		223.4	141	140



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0139335 **Received** : 05 Oct 2022
Lab Number : 05658759 **Tested** : 10 Oct 2022
Unique Number : 10163328 **Diagnosed** : 10 Oct 2022 - Don Baldrige
Test Package : CONST (Additional Tests: FT-IR, KV100, PQ)

MONTAGUE DEVELOPMENT
 10305 PENNY RD
 RALEIGH, NC
 US 27606
 Contact: Mark Fielding

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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