



Machine Id
JOHN DEERE 35G 1FF035GXJHK280279
 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. We recommend that you drain the oil from the component if this has not already been done. 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.

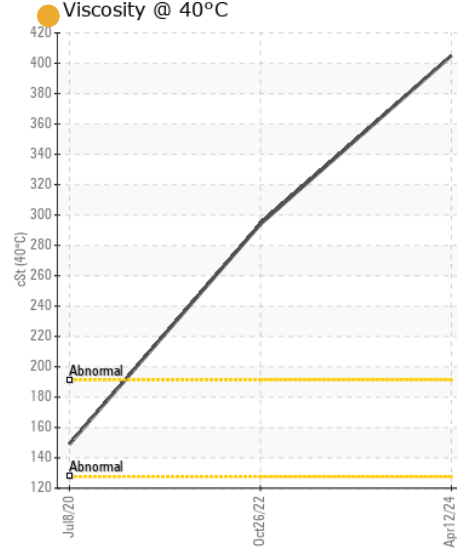
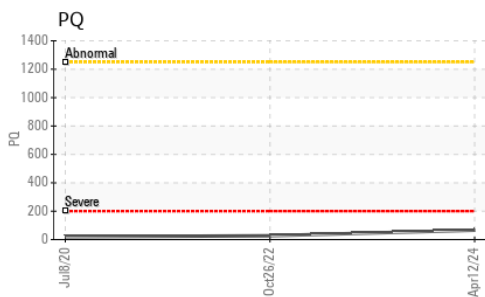
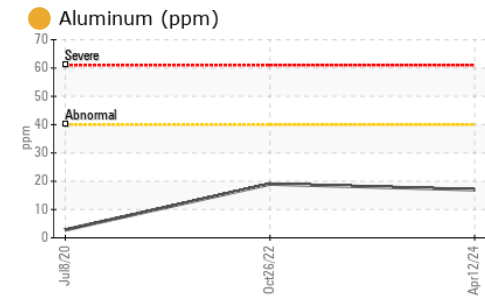
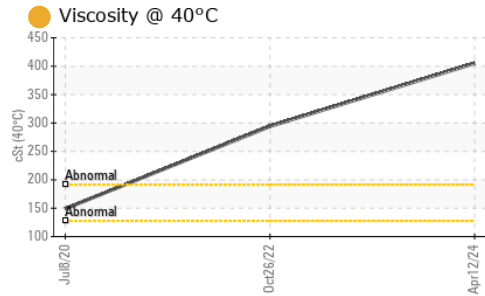
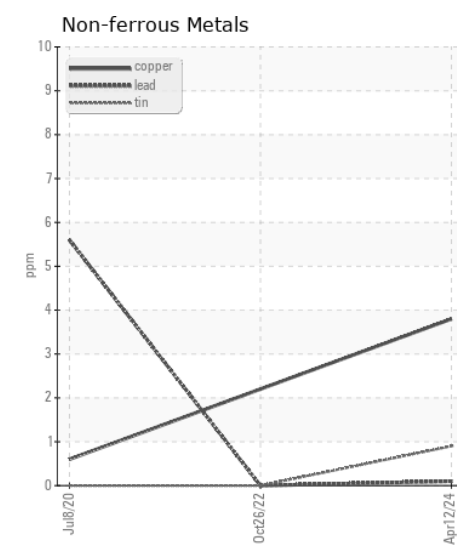
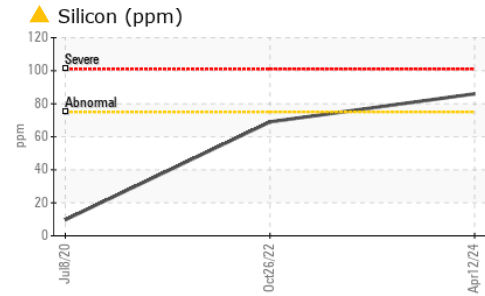
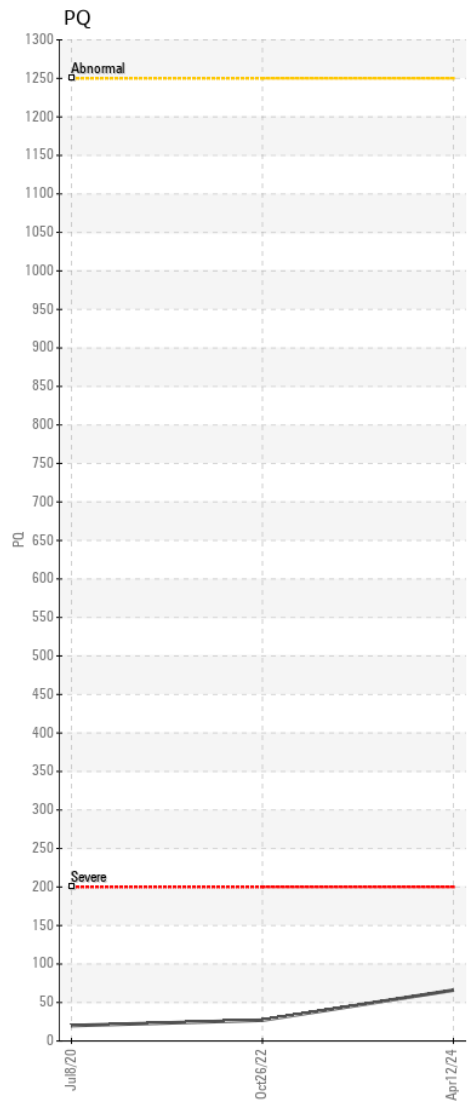
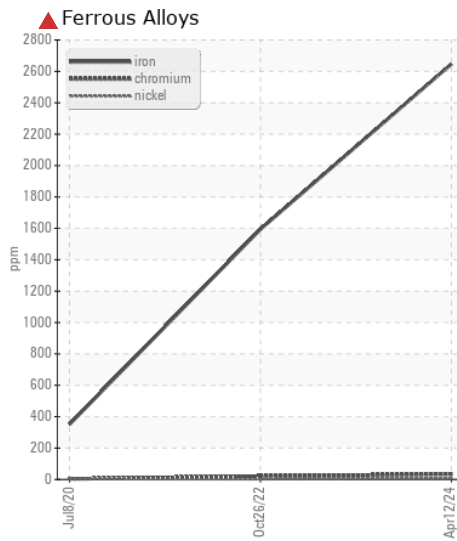
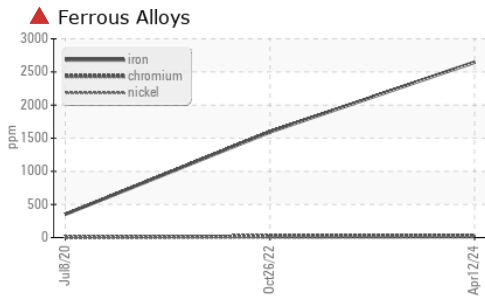
CONTAMINATION

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

FLUID CONDITION

The oil viscosity is higher than normal. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0209173	JR0144885	JR0055100
Sample Date		Client Info		12 Apr 2024	26 Oct 2022	08 Jul 2020
Machine Age	hrs	Client Info		15435	13541	10480
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				SEVERE	ABNORMAL	NORMAL
PQ		ASTM D8184	>1250	66	27	20
Iron	ppm	ASTM D5185m	>750	▲ 2647	1594	351
Chromium	ppm	ASTM D5185m	>9	▲ 34	21	3
Nickel	ppm	ASTM D5185m	>10	5	1	2
Titanium	ppm	ASTM D5185m		1	1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>40	● 17	19	3
Lead	ppm	ASTM D5185m	>15	<1	0	6
Copper	ppm	ASTM D5185m	>40	4	2	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 86	69	10
Potassium	ppm	ASTM D5185m	>20	6	5	0
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	▲ 0.2%	NEG
Sodium	ppm	ASTM D5185m	>51	6	0	2
Boron	ppm	ASTM D5185m		37	30	19
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		<1	1	0
Manganese	ppm	ASTM D5185m		29	22	4
Magnesium	ppm	ASTM D5185m		8	5	3
Calcium	ppm	ASTM D5185m		158	165	9
Phosphorus	ppm	ASTM D5185m		1322	1334	1939
Zinc	ppm	ASTM D5185m		29	29	28
Sulfur	ppm	ASTM D5185m		23920	25679	24248
Visc @ 40°C	cSt	ASTM D445		● 405	● 294	149



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0209173
Lab Number : 06152226
Unique Number : 10982304
Test Package : CONST (Additional Tests: PQ)
Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 22 Apr 2024 - Don Baldrige

JRE - GARNER
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 T: (919)614-2260
 F: (919)779-5432

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)