



Area
[05W46192]
Machine Id
HITACHI 350 1FFDDR70AJF940509
Component
Left Final Drive
Fluid
JOHN DEERE GL-5 80W90 (10 QTS)

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 recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0210955	JR0182121	JR0153122
Sample Date		Client Info		18 Apr 2024	10 Aug 2023	20 Jan 2023
Machine Age	hrs	Client Info		5448	4957	4451
Oil Age	hrs	Client Info		1500	4080	877
Filter Age	hrs	Client Info		0	3574	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	None	None
Sample Status				SEVERE	ABNORMAL	NORMAL

WEAR

Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		330	120	101
Iron	ppm	ASTM D5185m	>500	▲ 660	320	239
Chromium	ppm	ASTM D5185m	>10	6	3	2
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		5	2	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 77	● 36	22
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	2	1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

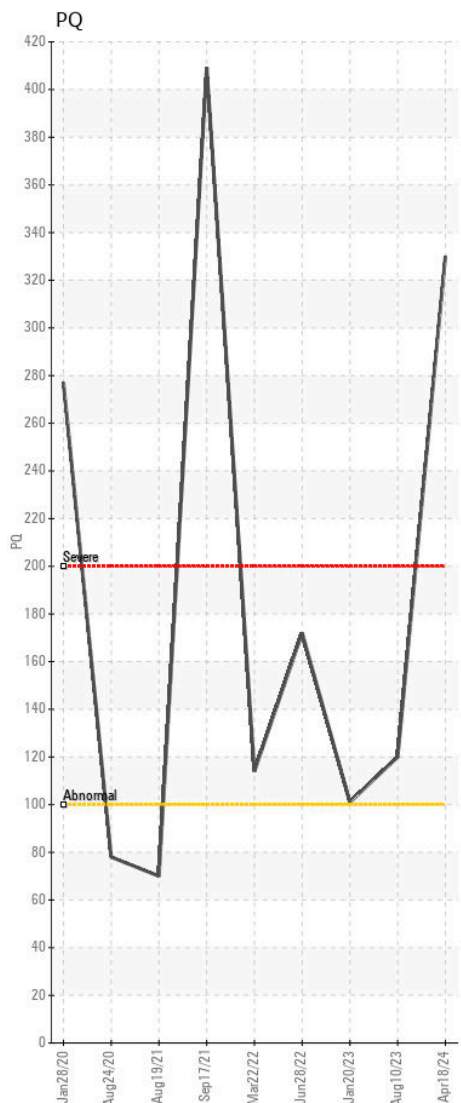
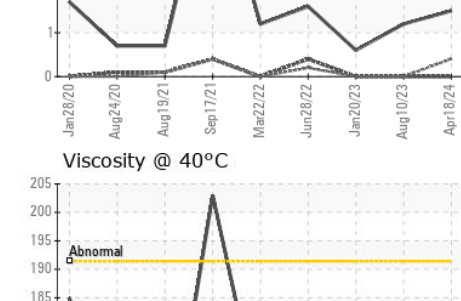
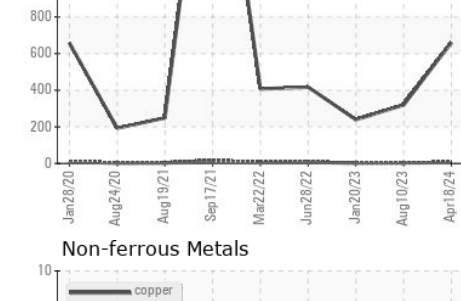
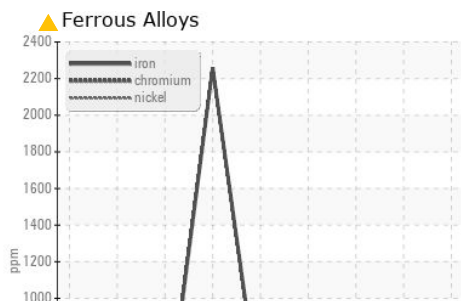
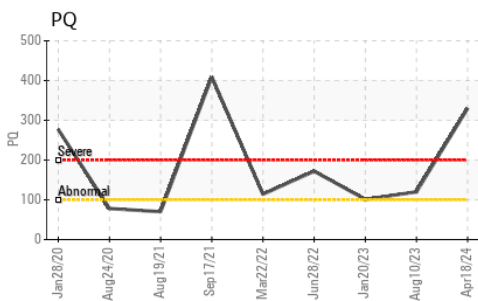
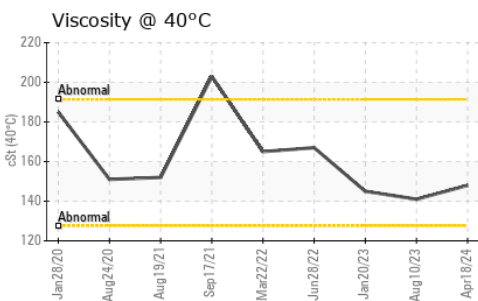
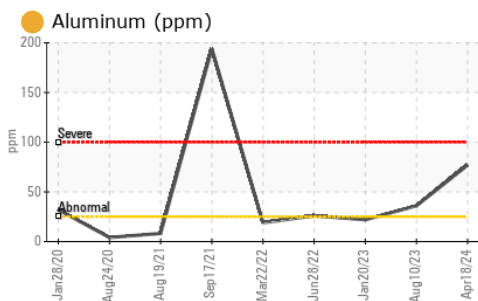
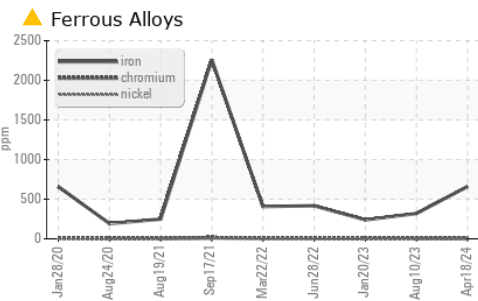
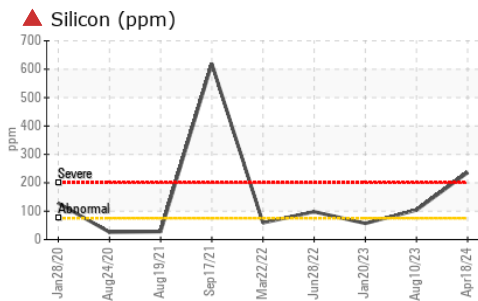
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 236	▲ 104	57
Potassium	ppm	ASTM D5185m	>20	11	5	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	MODER
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		7	5	2
Boron	ppm	ASTM D5185m		2	3	2
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		7	4	3
Magnesium	ppm	ASTM D5185m		13	12	8
Calcium	ppm	ASTM D5185m		36	78	32
Phosphorus	ppm	ASTM D5185m		676	602	609
Zinc	ppm	ASTM D5185m		16	21	20
Sulfur	ppm	ASTM D5185m		21861	22677	18492
Visc @ 40°C	cSt	ASTM D445		148	141	145



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0210955 **Received** : 19 Apr 2024
Lab Number : 06154752 **Tested** : 22 Apr 2024
Unique Number : 10990175 **Diagnosed** : 23 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - MANASSAS PARK
 9107 OWENS DRIVE
 MANASSAS PARK, VA
 US 20111
 Contact: DON VEST
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 F: (703)631-4715

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)