



Machine Id
HITACHI HCMDFD60C00700557
 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 recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

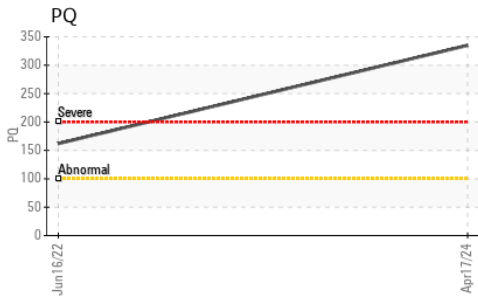
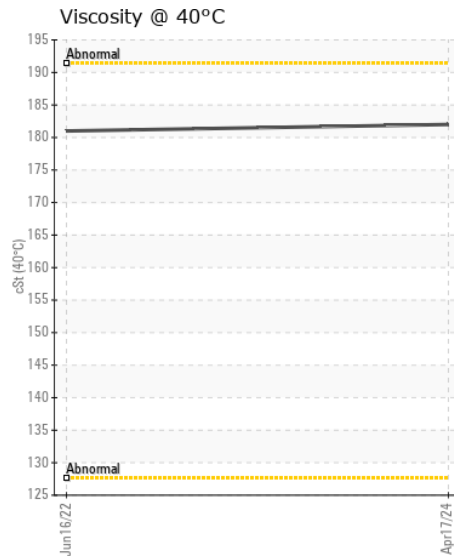
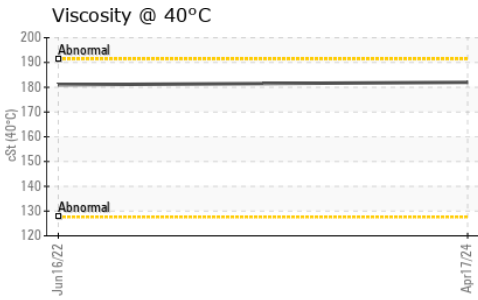
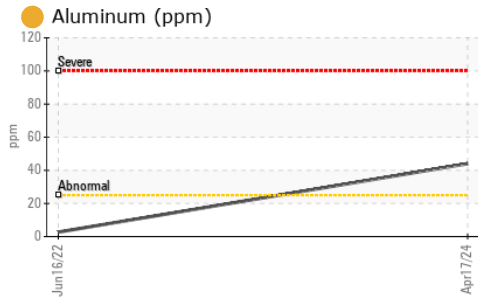
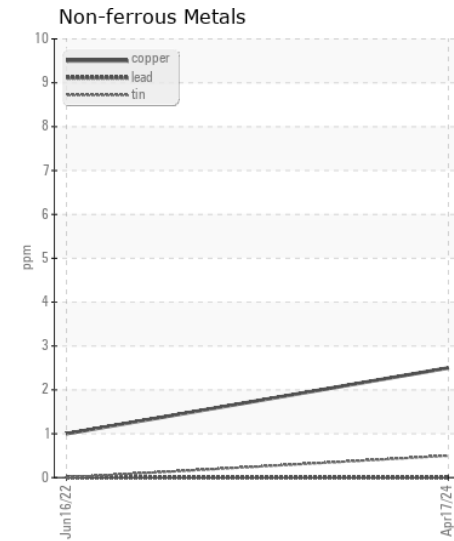
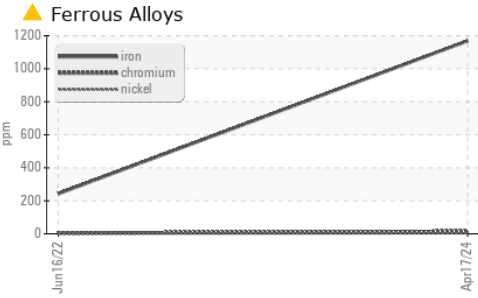
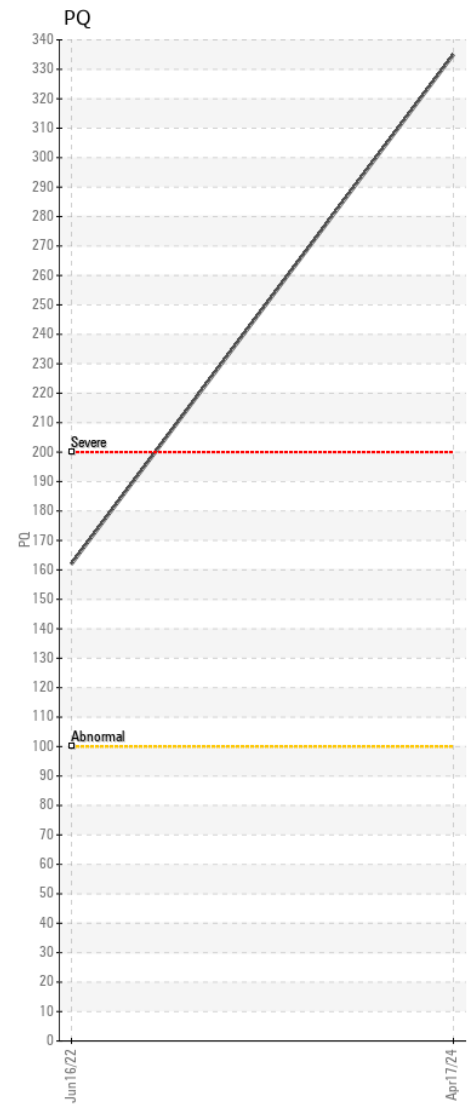
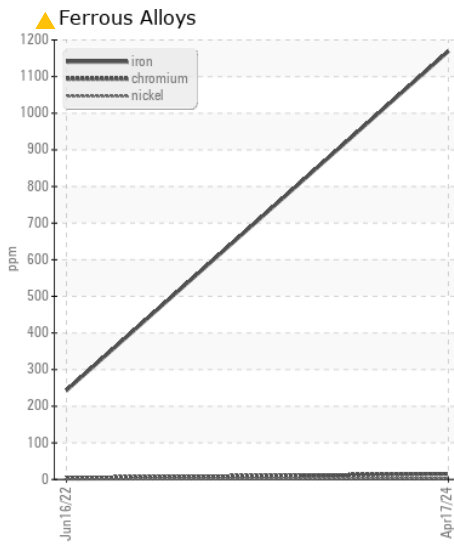
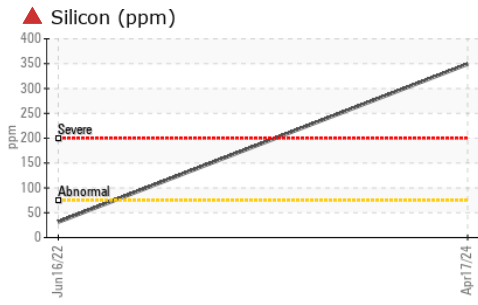
CONTAMINATION

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

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0214678	JR0132335	---
Sample Date		Client Info		17 Apr 2024	16 Jun 2022	---
Machine Age	hrs	Client Info		1033	437	---
Oil Age	hrs	Client Info		1033	437	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		None	N/A	---
Sample Status				SEVERE	NORMAL	---
PQ		ASTM D8184		335	162	---
Iron	ppm	ASTM D5185m	>500	▲ 1169	243	---
Chromium	ppm	ASTM D5185m	>10	▲ 15	4	---
Nickel	ppm	ASTM D5185m	>10	3	<1	---
Titanium	ppm	ASTM D5185m		7	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	● 44	3	---
Lead	ppm	ASTM D5185m	>25	0	0	---
Copper	ppm	ASTM D5185m	>50	2	1	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 349	31	---
Potassium	ppm	ASTM D5185m	>20	15	2	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m		2	<1	---
Boron	ppm	ASTM D5185m		57	56	---
Barium	ppm	ASTM D5185m		7	6	---
Molybdenum	ppm	ASTM D5185m		<1	<1	---
Manganese	ppm	ASTM D5185m		16	5	---
Magnesium	ppm	ASTM D5185m		2	<1	---
Calcium	ppm	ASTM D5185m		38	17	---
Phosphorus	ppm	ASTM D5185m		474	497	---
Zinc	ppm	ASTM D5185m		33	27	---
Sulfur	ppm	ASTM D5185m		15808	13979	---
Visc @ 40°C	cSt	ASTM D445		182	181	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0214678 **Received** : 19 Apr 2024
Lab Number : 06154748 **Tested** : 22 Apr 2024
Unique Number : 10990171 **Diagnosed** : 23 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - MANASSAS PARK
 9107 OWENS DRIVE
 MANASSAS PARK, VA
 US 20111
 Contact: RED AUZENNE
 red.auzenne@jamesriverequipment.com

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)

T: (703)631-4715