



Machine Id
HITACHI HCMDFD60T00700147
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (2 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.

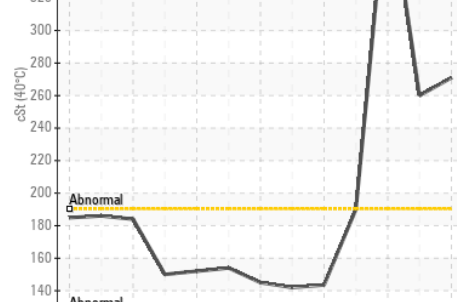
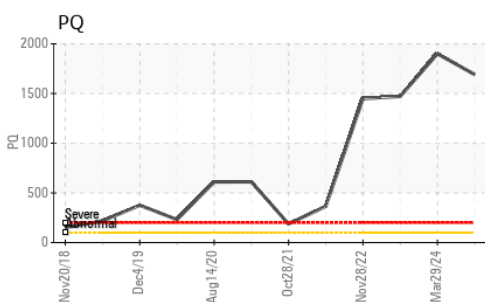
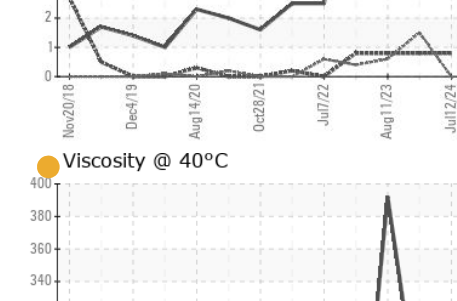
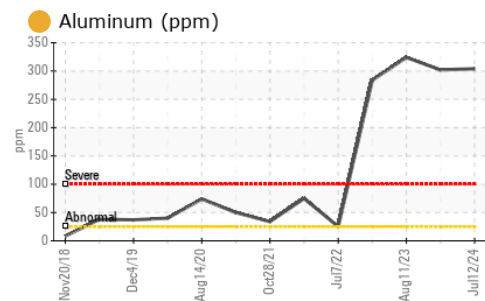
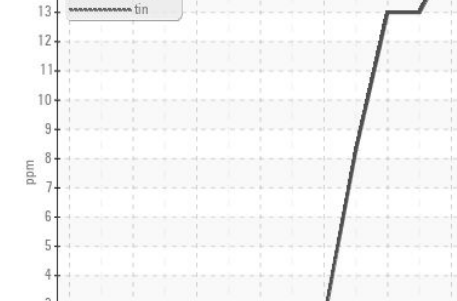
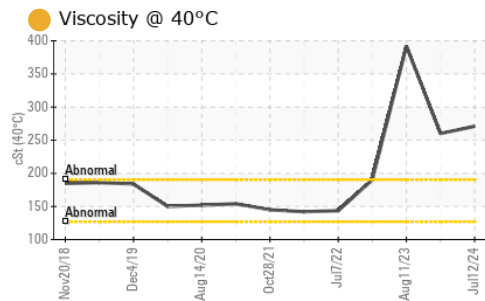
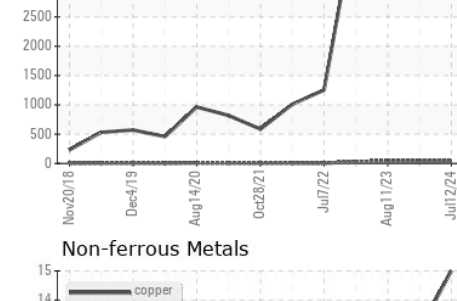
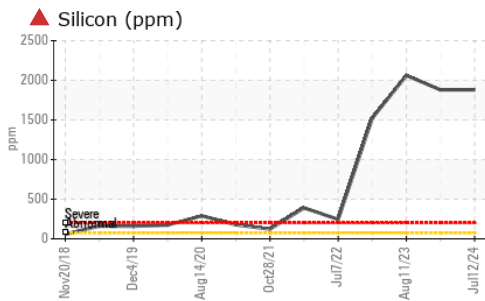
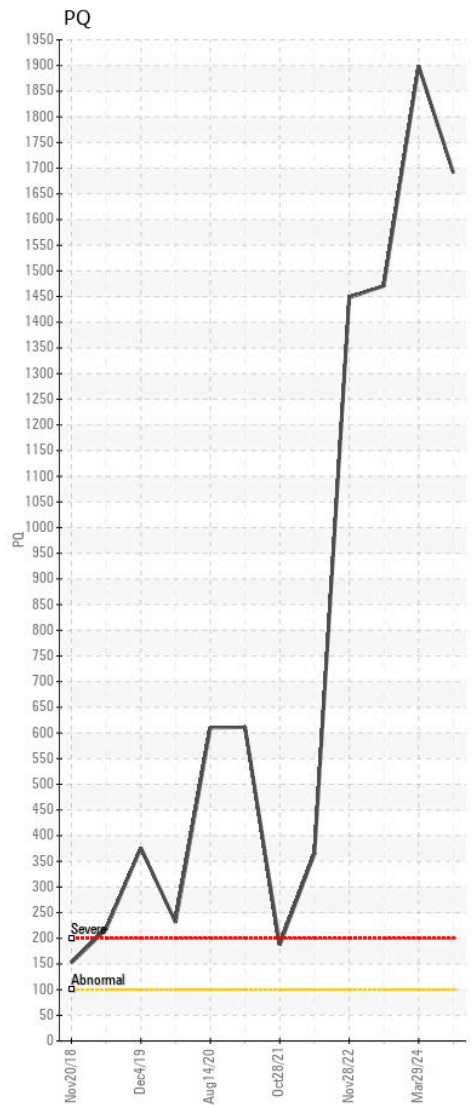
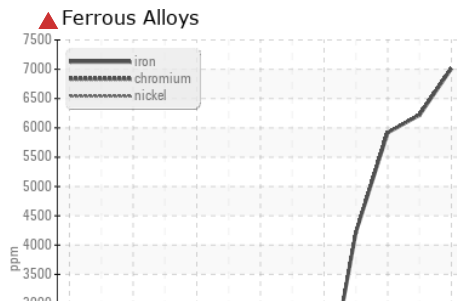
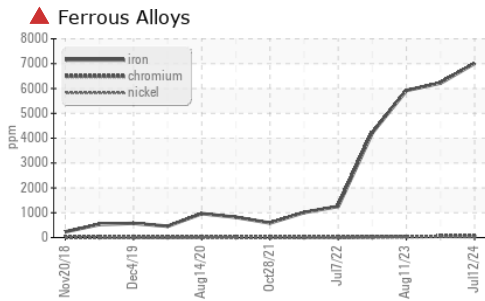
CONTAMINATION

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 due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0226533	JR0211130	JR0182098
Sample Date		Client Info		12 Jul 2024	29 Mar 2024	11 Aug 2023
Machine Age	hrs	Client Info		7377	6922	6441
Oil Age	hrs	Client Info		5425	5451	5461
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		None	None	N/A
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184		1691	▲ 1899	1471
Iron	ppm	ASTM D5185m	>500	▲ 7013	▲ 6219	▲ 5919
Chromium	ppm	ASTM D5185m	>10	▲ 49	▲ 48	▲ 42
Nickel	ppm	ASTM D5185m	>10	▲ 11	▲ 24	12
Titanium	ppm	ASTM D5185m		40	42	45
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 304	● 302	● 324
Lead	ppm	ASTM D5185m	>25	<1	<1	<1
Copper	ppm	ASTM D5185m	>50	15	13	13
Tin	ppm	ASTM D5185m	>10	0	2	<1
Vanadium	ppm	ASTM D5185m		2	2	2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 1880	▲ 1880	▲ 2061
Potassium	ppm	ASTM D5185m	>20	60	60	68
Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		7	10	11
Boron	ppm	ASTM D5185m		28	26	22
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		6	5	5
Manganese	ppm	ASTM D5185m		54	48	46
Magnesium	ppm	ASTM D5185m		37	42	45
Calcium	ppm	ASTM D5185m		45	62	122
Phosphorus	ppm	ASTM D5185m		327	322	382
Zinc	ppm	ASTM D5185m		18	14	27
Sulfur	ppm	ASTM D5185m		17383	20361	20465
Visc @ 40°C	cSt	ASTM D445		● 271	● 260	● 392



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0226533 **Received** : 15 Jul 2024
Lab Number : 06236410 **Tested** : 16 Jul 2024
Unique Number : 11125244 **Diagnosed** : 17 Jul 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

CWS-STRITTMATTER
 9102 OWENS DR
 MANASSAS PARK, VA
 US 20111

Contact: EDDIE GARRETSON
 egarretson@strittmattercompanies.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)

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