



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[47004]
Machine Id
HAMM H12I H2840096
Component
Rear Differential
Fluid
JOHN DEERE GL-5 80W90 (10 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217622	JR0153289	JR0137212
Sample Date		Client Info		30 May 2024	21 Mar 2023	26 Jul 2022
Machine Age	hrs	Client Info		1629	945	498
Oil Age	hrs	Client Info		684	0	498
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Bearing and/or bushing wear is indicated.

PQ		ASTM D8184		209	136	139
Iron	ppm	ASTM D5185m	>500	240	144	79
Chromium	ppm	ASTM D5185m	>10	2	1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	4	4	3
Lead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>100	▲ 158	126	103
Tin	ppm	ASTM D5185m	>10	10	7	5
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

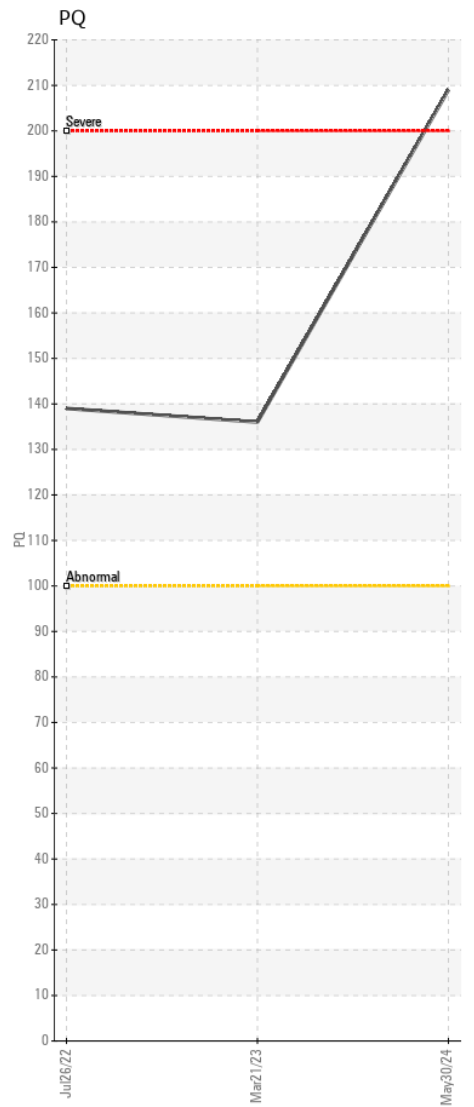
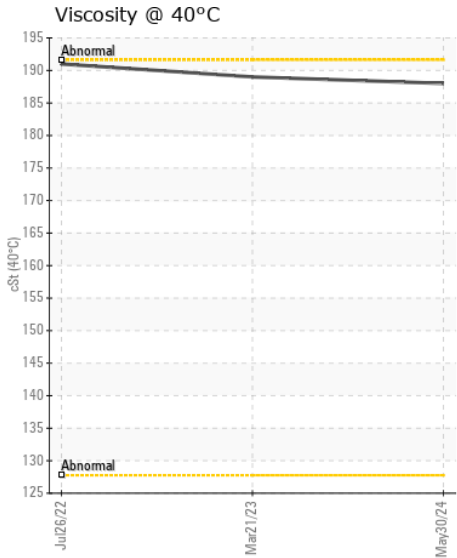
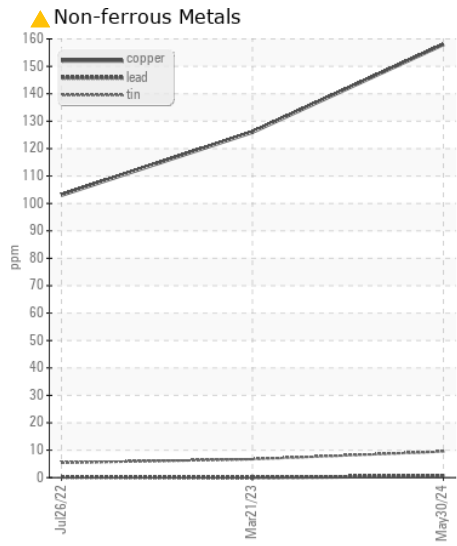
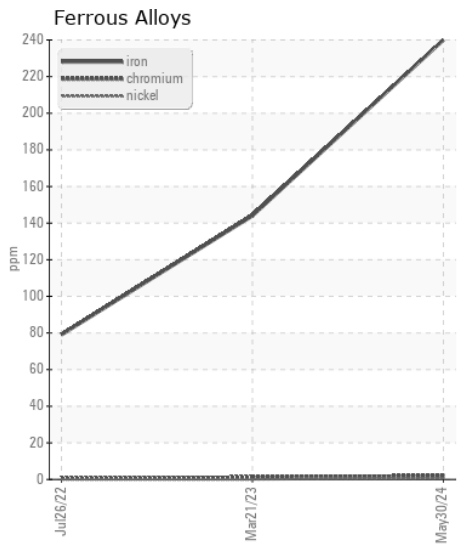
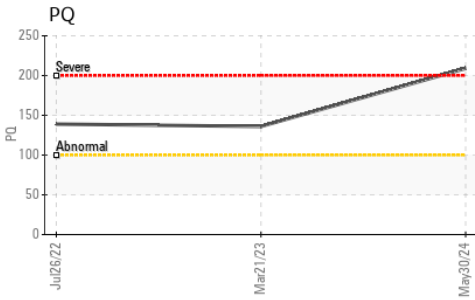
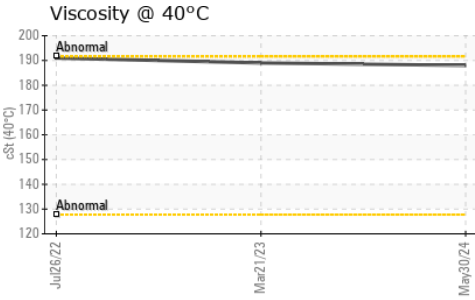
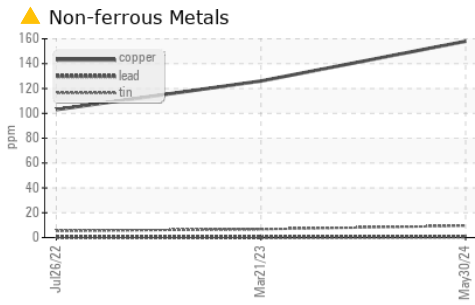
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	24	22	19
Potassium	ppm	ASTM D5185m	>20	3	<1	2
Water		WC Method	>.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	>.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		13	13	10
Boron	ppm	ASTM D5185m		12	3	5
Barium	ppm	ASTM D5185m		7	2	<1
Molybdenum	ppm	ASTM D5185m		8	<1	<1
Manganese	ppm	ASTM D5185m		9	7	6
Magnesium	ppm	ASTM D5185m		30	4	5
Calcium	ppm	ASTM D5185m		87	35	55
Phosphorus	ppm	ASTM D5185m		2440	2201	2174
Zinc	ppm	ASTM D5185m		200	141	104
Sulfur	ppm	ASTM D5185m		30093	30079	29775
Visc @ 40°C	cSt	ASTM D445		188	189	191



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217622 **Received** : 31 May 2024
Lab Number : 06196930 **Tested** : 03 Jun 2024
Unique Number : 11059053 **Diagnosed** : 03 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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)