



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HAMM H12IP H284.0055 (S/N H284-0053)
 Component
Rear Differential
 Fluid
JOHN DEERE GL-5 80W90 (--- QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. 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		JR0218072	JR0187662	JR0182097
Sample Date		Client Info		17 Jun 2024	15 Sep 2023	12 Jul 2023
Machine Age	hrs	Client Info		1975	1436	1327
Oil Age	hrs	Client Info		0	109	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

The copper level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		91	142	257
Iron	ppm	ASTM D5185m	>500	171	107	199
Chromium	ppm	ASTM D5185m	>10	1	<1	1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	3
Lead	ppm	ASTM D5185m	>25	4	<1	0
Copper	ppm	ASTM D5185m	>100	▲ 146	77	▲ 125
Tin	ppm	ASTM D5185m	>10	7	5	9
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

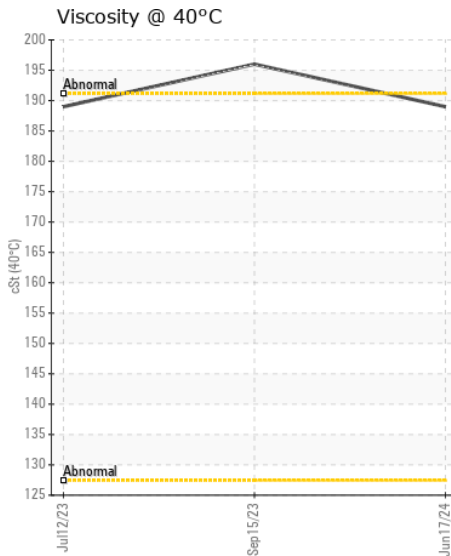
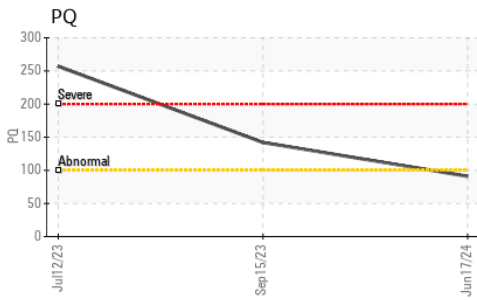
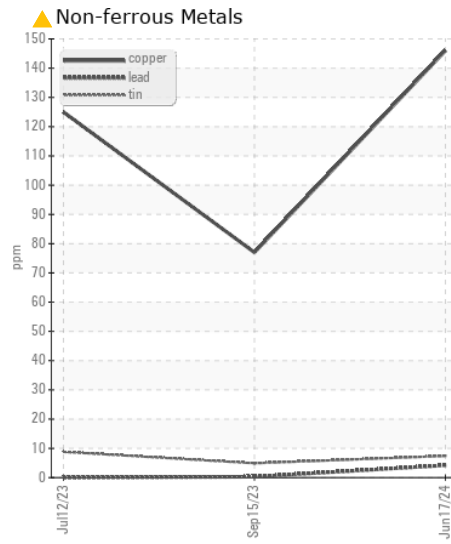
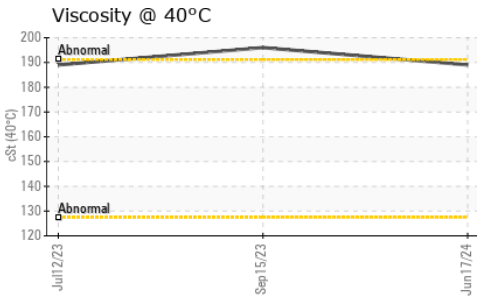
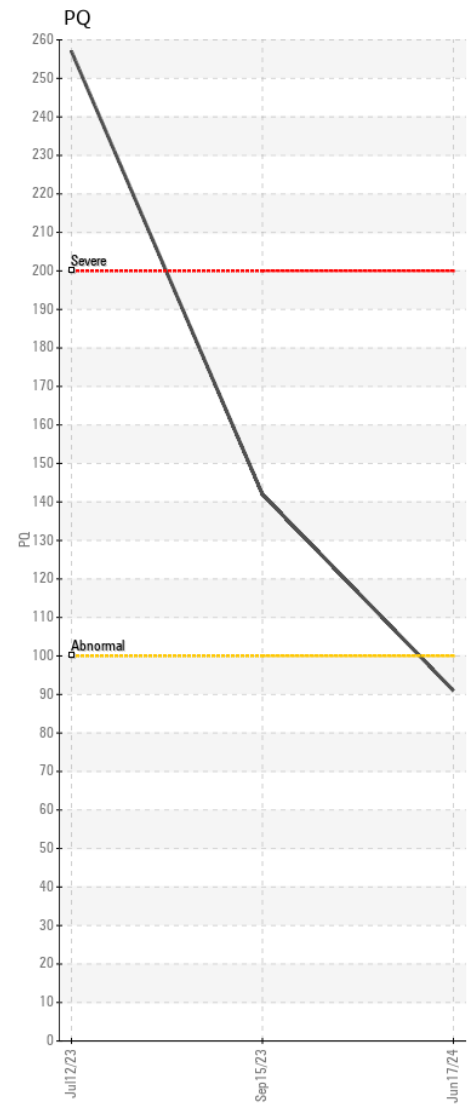
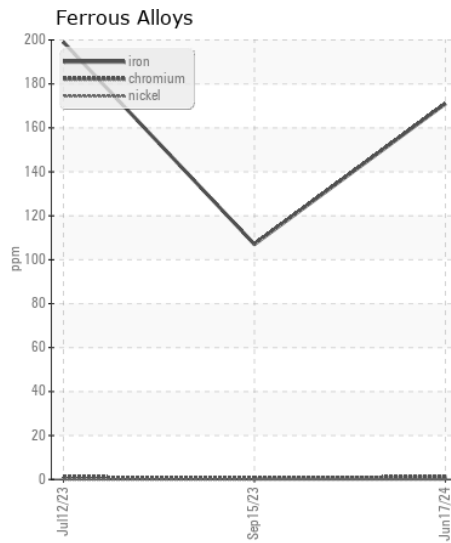
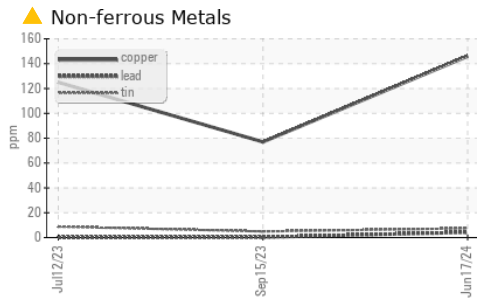
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	8	8	16
Potassium	ppm	ASTM D5185m	>20	1	<1	0
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		4	6	11
Boron	ppm	ASTM D5185m		3	4	6
Barium	ppm	ASTM D5185m		171	176	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		4	3	5
Magnesium	ppm	ASTM D5185m		2	0	0
Calcium	ppm	ASTM D5185m		4	16	24
Phosphorus	ppm	ASTM D5185m		1469	1673	2333
Zinc	ppm	ASTM D5185m		61	32	147
Sulfur	ppm	ASTM D5185m		24053	25056	33141
Visc @ 40°C	cSt	ASTM D445		189	196	189



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218072 **Received** : 18 Jun 2024
Lab Number : 06213810 **Tested** : 20 Jun 2024
Unique Number : 11086674 **Diagnosed** : 20 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

B & S SITE DEVELOPMENT
 7800 PINEY BRANCH LANE
 BRISTOW, VA
 US 20136

Contact: DANNY HUFF
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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)

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