



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[16W15552]

Machine Id

HITACHI ZX210LC-6 1FFDC571PNF341046

Component

Left Final Drive

Fluid

JOHN DEERE GL-5 80W90 (6 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. (Customer Sample Comment: 16W15552)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196549	JR0185319	JR0161175
Sample Date		Client Info		09 Feb 2024	03 Oct 2023	19 Apr 2023
Machine Age	hrs	Client Info		2000	1488	1032
Oil Age	hrs	Client Info		2000	1488	1032
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Gear wear is indicated. All other component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		207	163	212
Iron	ppm	ASTM D5185m	>500	▲ 515	301	294
Chromium	ppm	ASTM D5185m	>10	9	5	5
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		1	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	2	1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

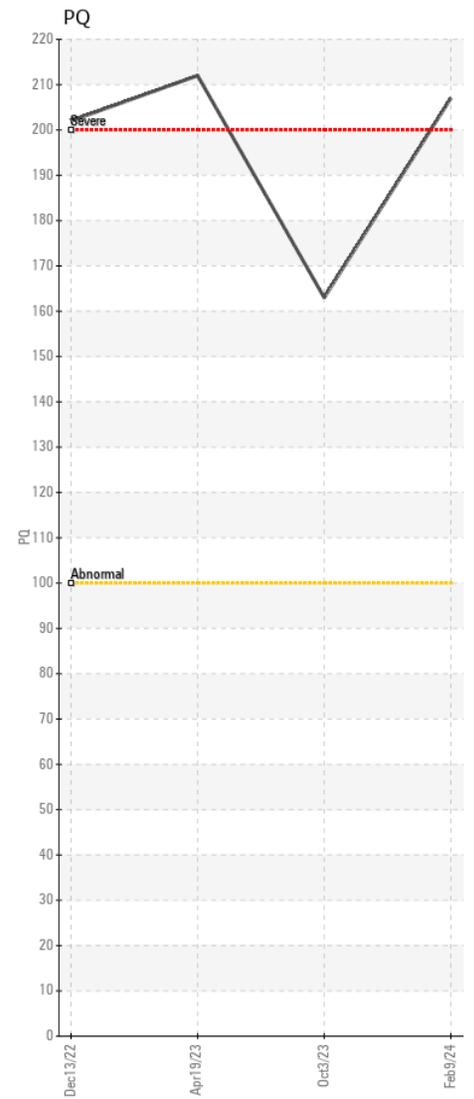
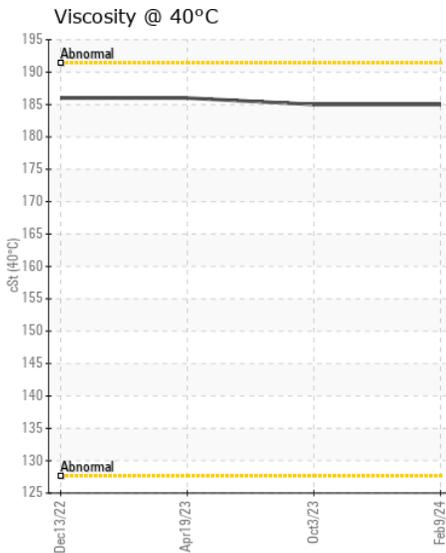
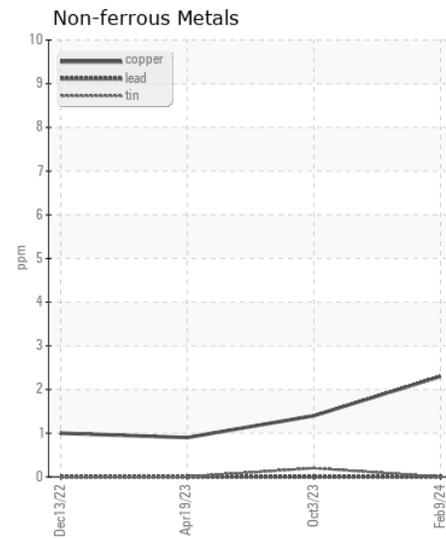
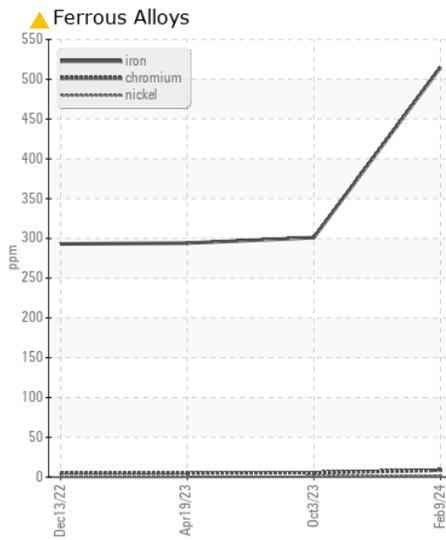
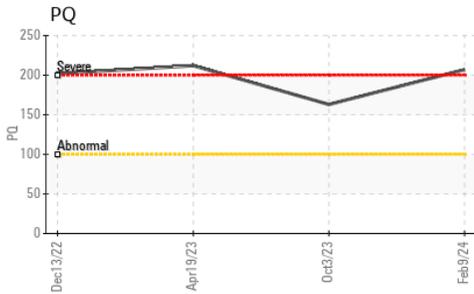
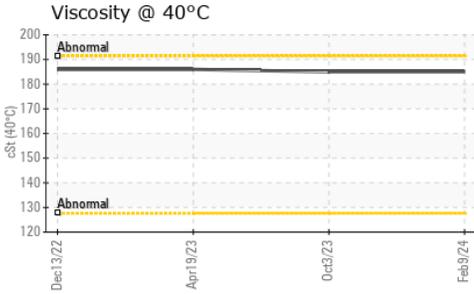
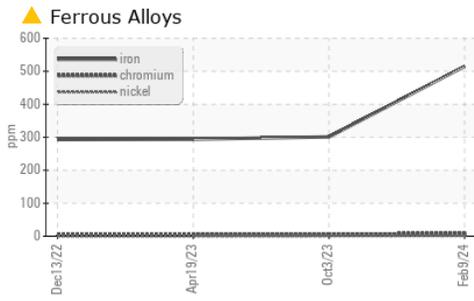
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	46	25	23
Potassium	ppm	ASTM D5185m	>20	8	3	2
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

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		0	<1	<1
Boron	ppm	ASTM D5185m		93	62	60
Barium	ppm	ASTM D5185m		10	0	6
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		10	6	6
Magnesium	ppm	ASTM D5185m		3	<1	2
Calcium	ppm	ASTM D5185m		22	41	22
Phosphorus	ppm	ASTM D5185m		832	519	500
Zinc	ppm	ASTM D5185m		32	20	19
Sulfur	ppm	ASTM D5185m		24273	15442	17046
Visc @ 40°C	cSt	ASTM D445		185	185	186



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196549 **Received** : 13 Feb 2024
Lab Number : 06087628 **Tested** : 14 Feb 2024
Unique Number : 10875073 **Diagnosed** : 14 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - CASTLE HAYNE
 113 CROWATAN ROAD
 CASTLE HAYNE, NC
 US 28429-5819

Contact: WILMINGTON SHOP

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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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