



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[05W48095]

Machine Id
HITACHI ZX670 HCMJBK60L00060017

Component
Right Final Drive

Fluid
JOHN DEERE GL-5 80W90 (5 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

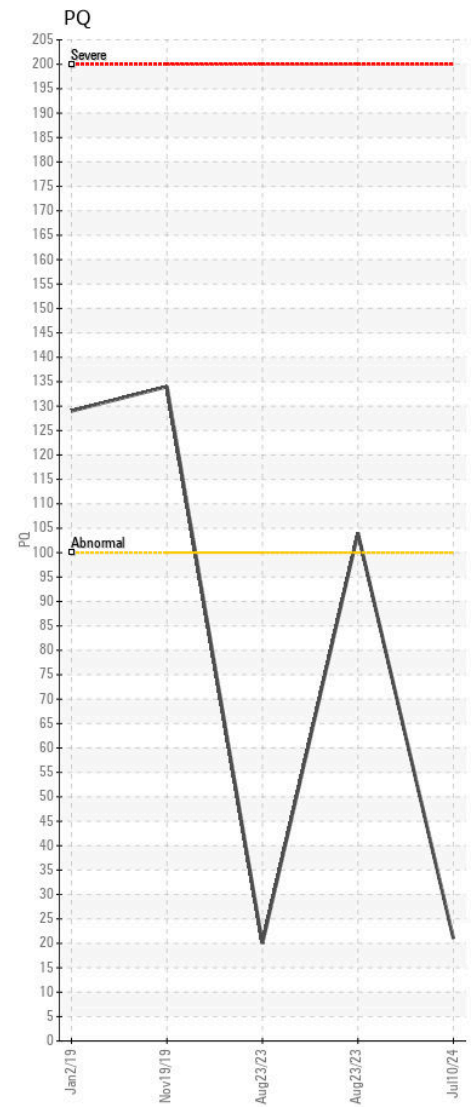
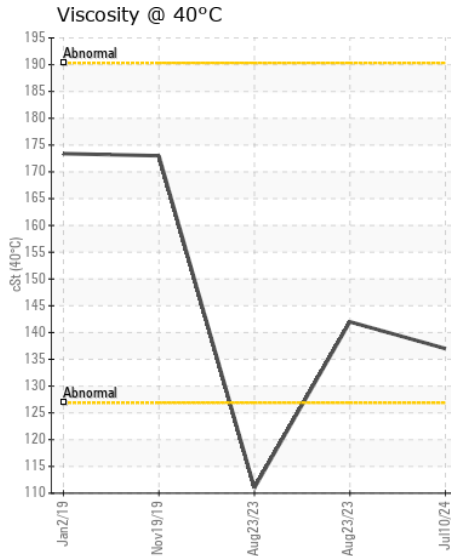
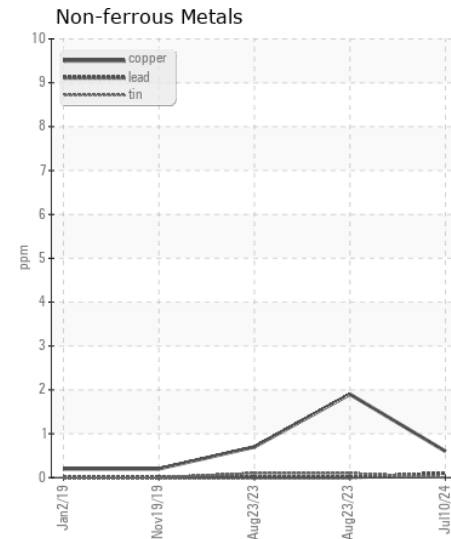
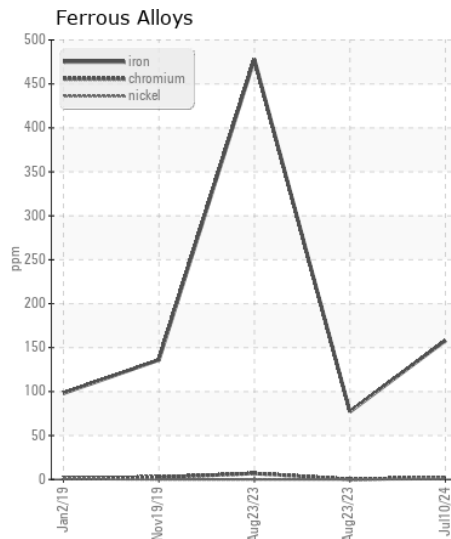
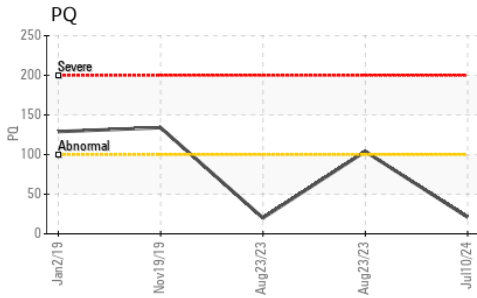
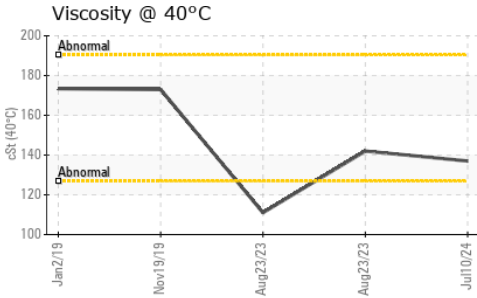
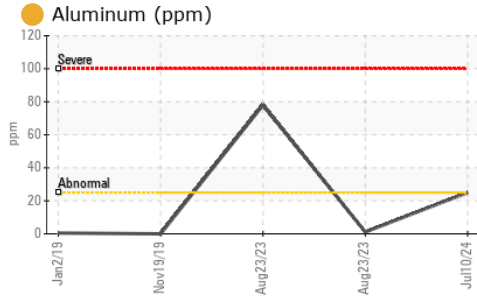
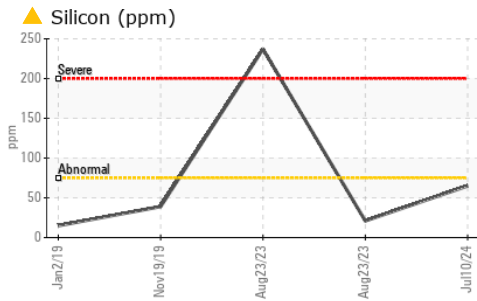
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0226669	JR0169918	JR0184417
Sample Date		Client Info		10 Jul 2024	23 Aug 2023	23 Aug 2023
Machine Age	hrs	Client Info		5933	5607	5607
Oil Age	hrs	Client Info		326	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

PQ		ASTM D8184		21	104	20
Iron	ppm	ASTM D5185m	>500	158	478	77
Chromium	ppm	ASTM D5185m	>10	2	7	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		1	5	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	25	78	1
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	2
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	65	237	21
Potassium	ppm	ASTM D5185m	>20	11	35	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	LIGHT	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		0	3	3
Boron	ppm	ASTM D5185m		6	18	63
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		2	6	2
Magnesium	ppm	ASTM D5185m		6	13	2
Calcium	ppm	ASTM D5185m		0	19	32
Phosphorus	ppm	ASTM D5185m		309	361	544
Zinc	ppm	ASTM D5185m		6	6	26
Sulfur	ppm	ASTM D5185m		17000	22450	18327
Visc @ 40°C	cSt	ASTM D445		137	142	111



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0226669 **Received** : 15 Jul 2024
Lab Number : 06236428 **Tested** : 16 Jul 2024
Unique Number : 11125262 **Diagnosed** : 17 Jul 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - MANASSAS PARK
 9107 OWENS DRIVE
 MANASSAS PARK, VA
 US 20111

Contact: DON VEST
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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)