



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[W49374]
 Machine Id
HITACHI ZX130LC-6 1FFDAP70VGF140006
 Component
Left Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200007	JR0088254	JRMC467473
Sample Date		Client Info		07 Feb 2024	26 May 2021	01 Feb 2019
Machine Age	hrs	Client Info		5981	3990	2102
Oil Age	hrs	Client Info		0	3000	2102
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		927	294	320
Iron	ppm	ASTM D5185m	>500	2542	1049	491
Chromium	ppm	ASTM D5185m	>10	19	10	8
Nickel	ppm	ASTM D5185m	>10	9	5	5
Titanium	ppm	ASTM D5185m		9	4	5
Silver	ppm	ASTM D5185m		0	1	<1
Aluminum	ppm	ASTM D5185m	>25	47	27	31
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>50	6	2	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	HEAVY
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

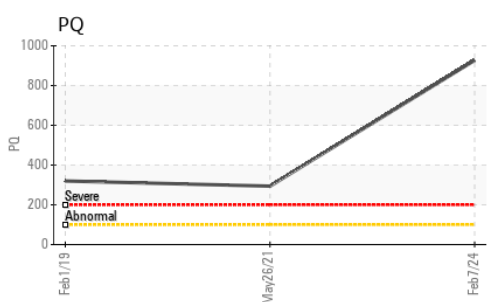
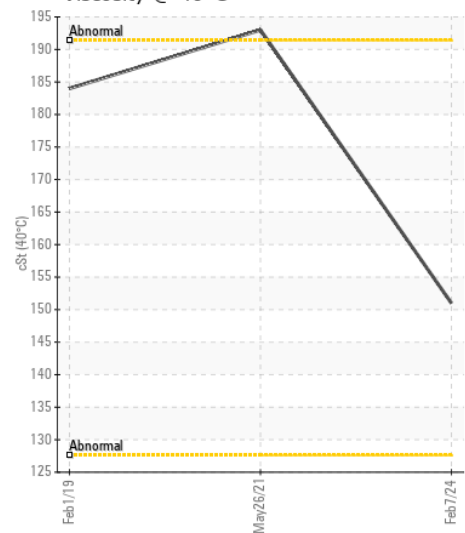
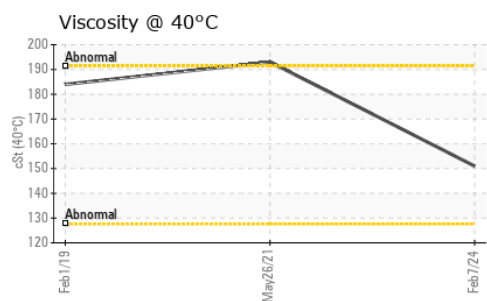
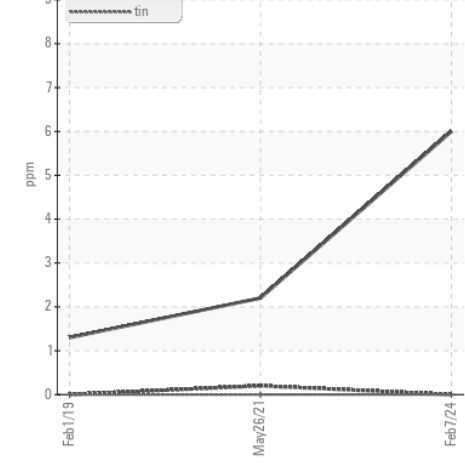
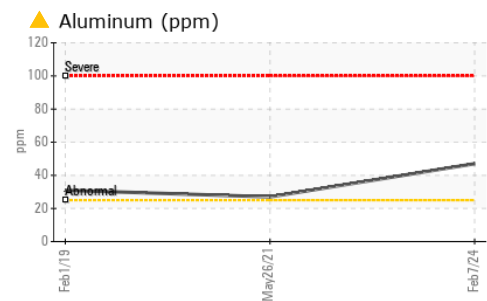
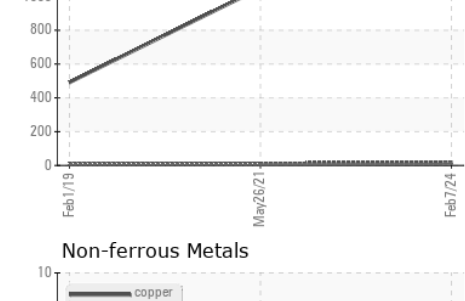
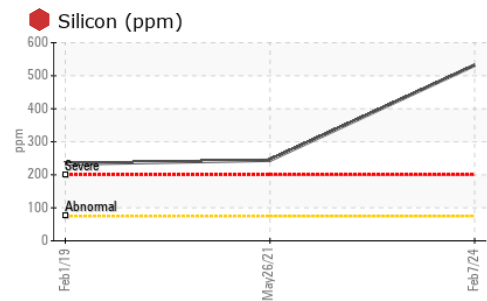
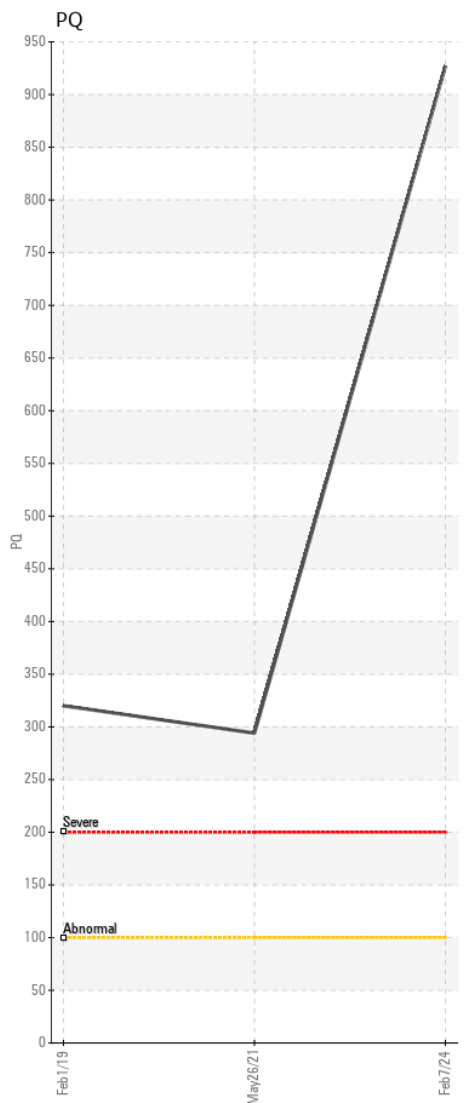
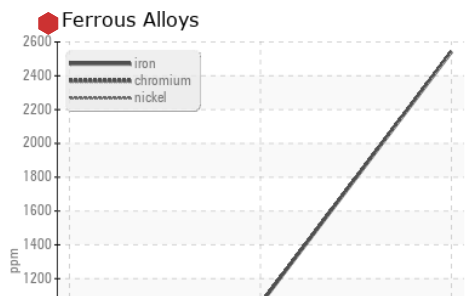
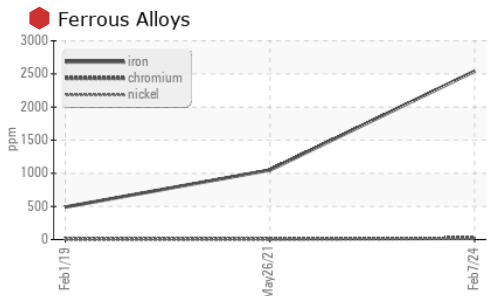
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	532	244	233
Potassium	ppm	ASTM D5185m	>20	12	9	11
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 oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<1	4	2
Boron	ppm	ASTM D5185m		155	15	50
Barium	ppm	ASTM D5185m		0	1	9
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		18	9	6
Magnesium	ppm	ASTM D5185m		4	6	3
Calcium	ppm	ASTM D5185m		47	94	8
Phosphorus	ppm	ASTM D5185m		1154	1961	455
Zinc	ppm	ASTM D5185m		10	42	49
Sulfur	ppm	ASTM D5185m		28152	22480	12193
Visc @ 40°C	cSt	ASTM D445		151	193	184.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200007
Lab Number : 06087635
Unique Number : 10875080
Test Package : CONST (Additional Tests: PQ)

Received : 13 Feb 2024
Tested : 14 Feb 2024
Diagnosed : 14 Feb 2024 - Don Baldrige

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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)