



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W49374]
 Machine Id
HITACHI ZX130LC-6 1FFDAP70VGF140006
 Component
Right 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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200006	JR0088253	JRMC453642
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	2000	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				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Gear wear is indicated.

PQ		ASTM D8184		672	647	203
Iron	ppm	ASTM D5185m	>500	▲ 1334	1190	310
Chromium	ppm	ASTM D5185m	>10	▲ 10	12	6
Nickel	ppm	ASTM D5185m	>10	4	4	5
Titanium	ppm	ASTM D5185m		4	6	3
Silver	ppm	ASTM D5185m		0	2	0
Aluminum	ppm	ASTM D5185m	>25	▲ 23	▲ 34	17
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m	>50	3	2	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MDHVY	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

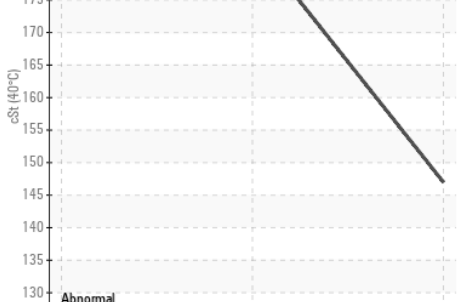
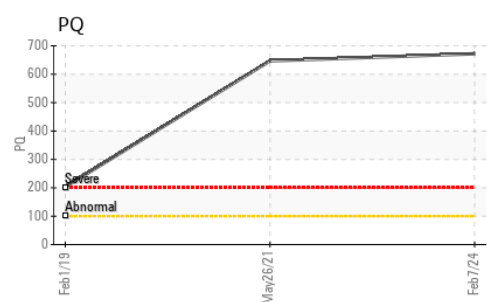
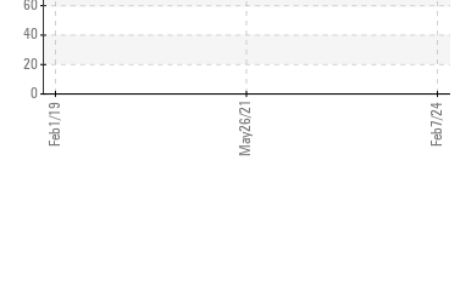
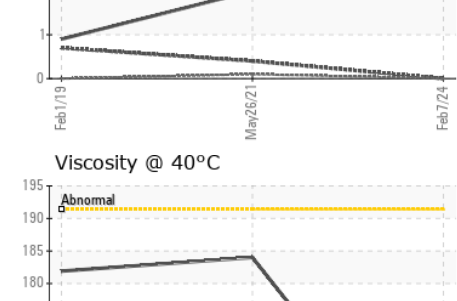
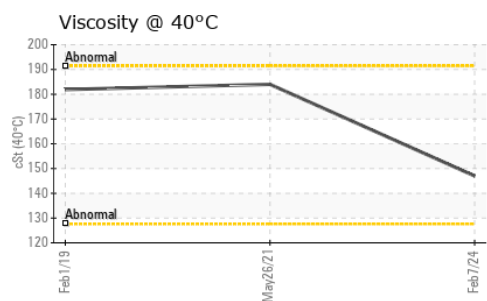
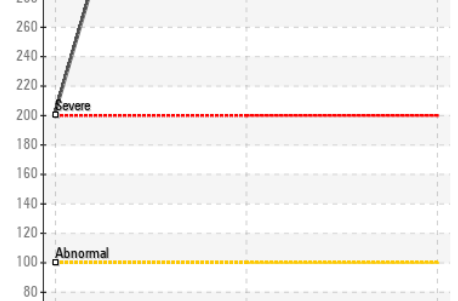
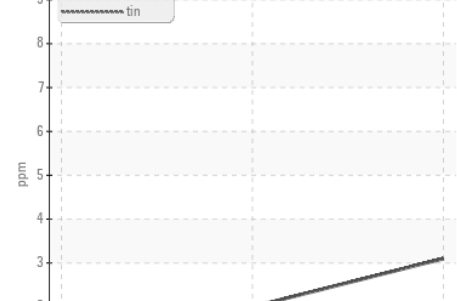
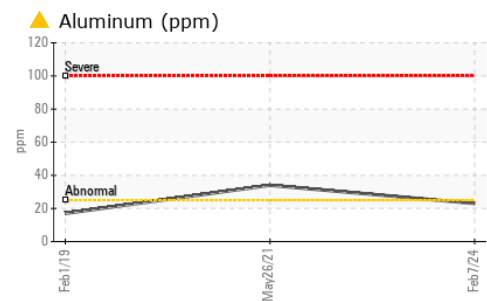
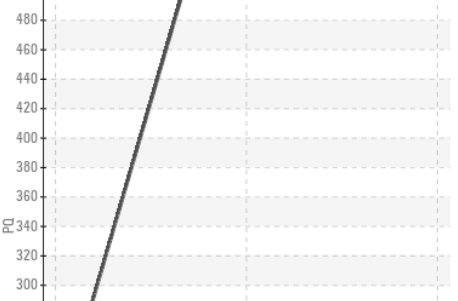
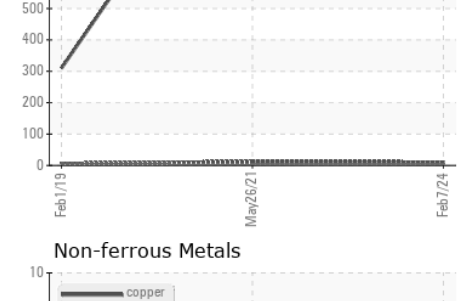
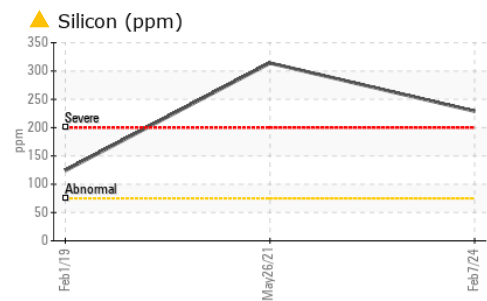
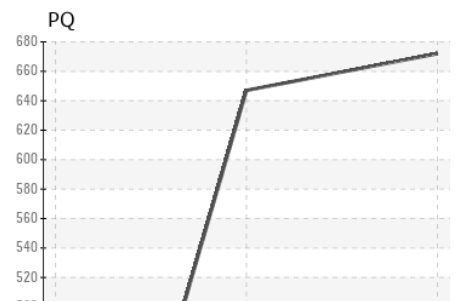
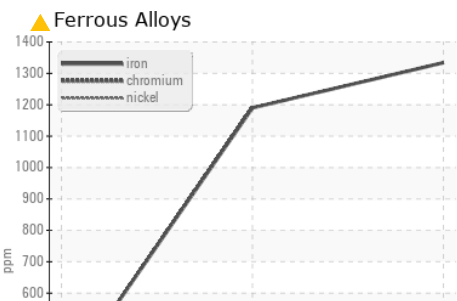
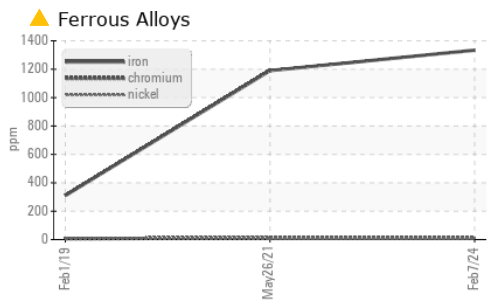
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 229	▲ 314	▲ 124
Potassium	ppm	ASTM D5185m	>20	6	11	5
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.

Sodium	ppm	ASTM D5185m		<1	4	<1
Boron	ppm	ASTM D5185m		131	18	51
Barium	ppm	ASTM D5185m		19	1	6
Molybdenum	ppm	ASTM D5185m		1	<1	0
Manganese	ppm	ASTM D5185m		10	11	4
Magnesium	ppm	ASTM D5185m		2	4	2
Calcium	ppm	ASTM D5185m		6	104	9
Phosphorus	ppm	ASTM D5185m		932	1927	455
Zinc	ppm	ASTM D5185m		5	50	53
Sulfur	ppm	ASTM D5185m		19113	22878	12296
Visc @ 40°C	cSt	ASTM D445		147	184	181.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200006 **Received** : 13 Feb 2024
Lab Number : 06087639 **Tested** : 14 Feb 2024
Unique Number : 10875084 **Diagnosed** : 14 Feb 2024 - Don Baldrige
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)