



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
HITACHI 245LC-5 HCMDCP60T00400277

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.

WEAR

Gear wear is indicated.

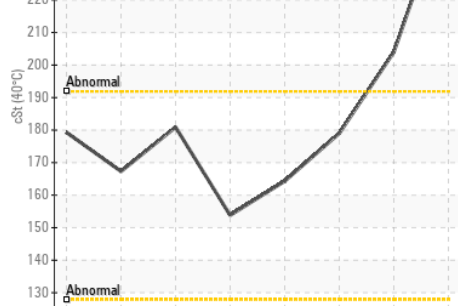
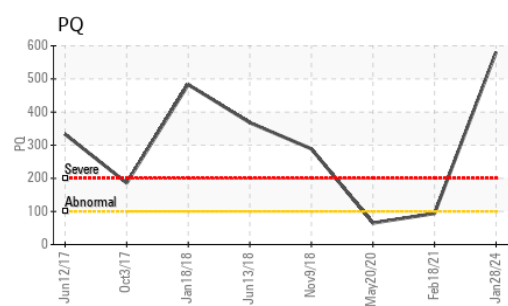
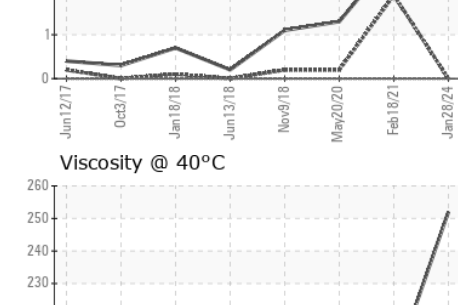
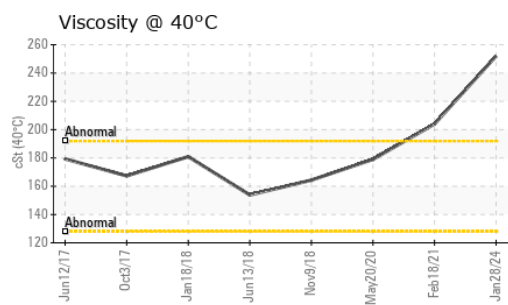
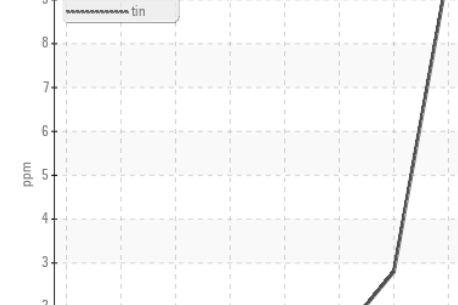
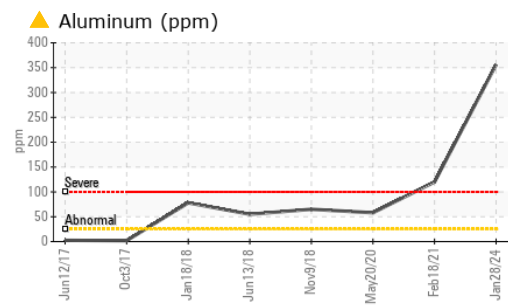
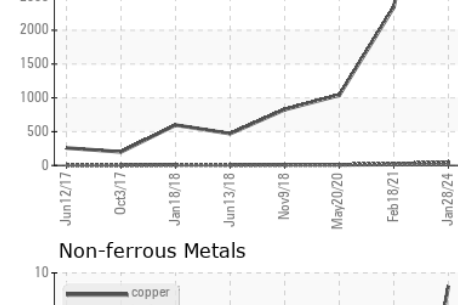
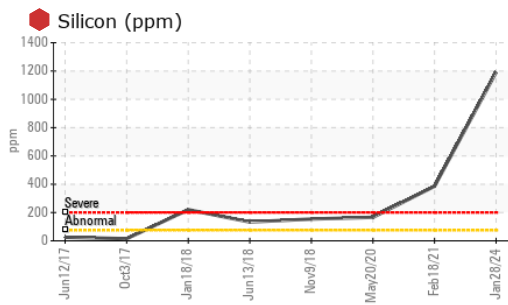
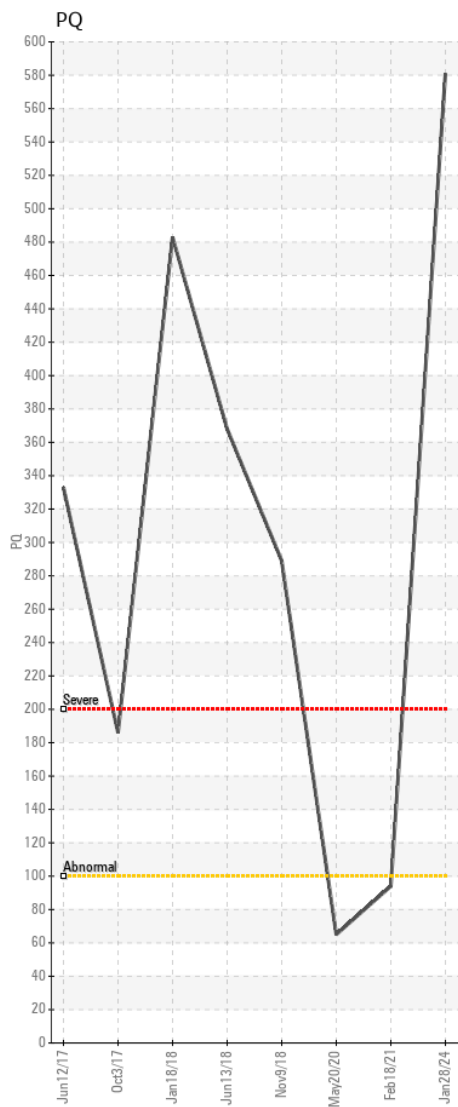
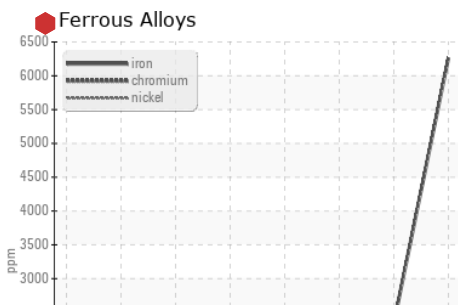
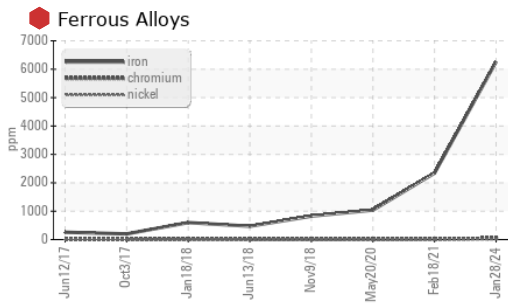
CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0197680	JR0078074	JR0052878
Sample Date		Client Info		28 Jan 2024	18 Feb 2021	20 May 2020
Machine Age	hrs	Client Info		9046	5418	4540
Oil Age	hrs	Client Info		5663	0	0
Filter Age	hrs	Client Info		2035	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
PQ		ASTM D8184		581	94	65
Iron	ppm	ASTM D5185m	>500	6263	2342	1039
Chromium	ppm	ASTM D5185m	>10	48	20	10
Nickel	ppm	ASTM D5185m	>10	8	4	1
Titanium	ppm	ASTM D5185m		16	6	3
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	356	120	58
Lead	ppm	ASTM D5185m	>25	0	2	<1
Copper	ppm	ASTM D5185m	>50	10	3	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		1	1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	1191	386	166
Potassium	ppm	ASTM D5185m	>20	94	32	10
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
Sodium	ppm	ASTM D5185m		37	19	9
Boron	ppm	ASTM D5185m		29	12	8
Barium	ppm	ASTM D5185m		3	1	<1
Molybdenum	ppm	ASTM D5185m		4	0	0
Manganese	ppm	ASTM D5185m		50	20	9
Magnesium	ppm	ASTM D5185m		22	9	4
Calcium	ppm	ASTM D5185m		38	14	10
Phosphorus	ppm	ASTM D5185m		2217	2047	1985
Zinc	ppm	ASTM D5185m		27	13	11
Sulfur	ppm	ASTM D5185m		29299	24292	23468
Visc @ 40°C	cSt	ASTM D445		252	204	179



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0197680 **Received** : 30 Jan 2024
Lab Number : 06075045 **Diagnosed** : 01 Feb 2024
Unique Number : 10857136 **Diagnostician** : Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
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 US 27529
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 F: (919)779-5432

Certificate L2367
 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)