



WEAR	<b>SEVERE</b>
CONTAMINATION	<b>SEVERE</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**HITACHI 245LC-5 HCMDCP60T00400277**

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. 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

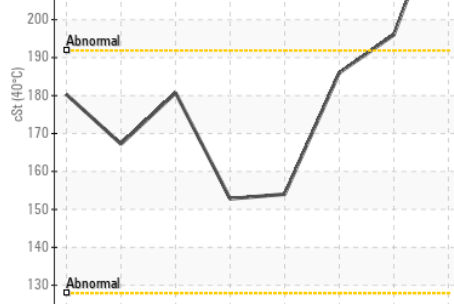
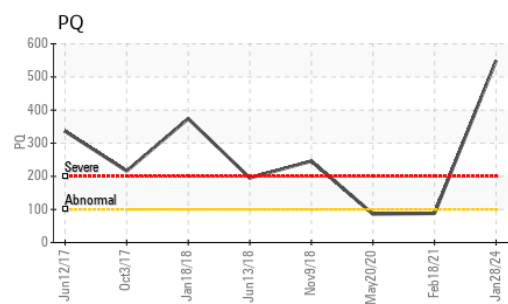
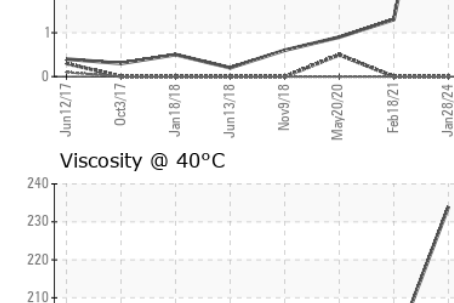
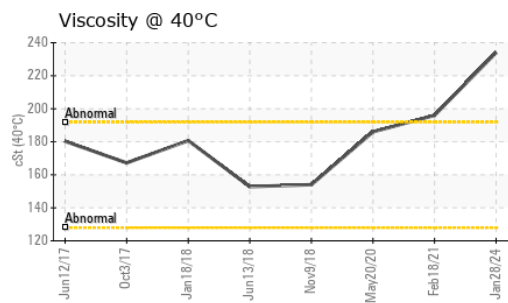
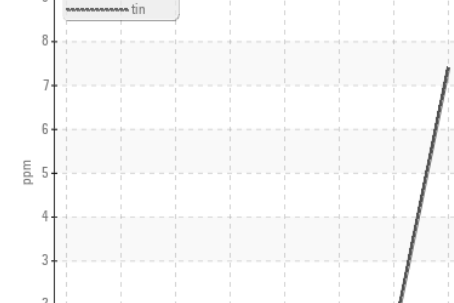
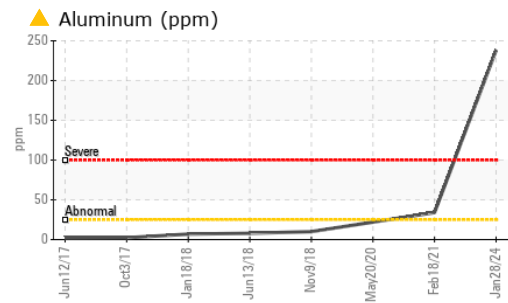
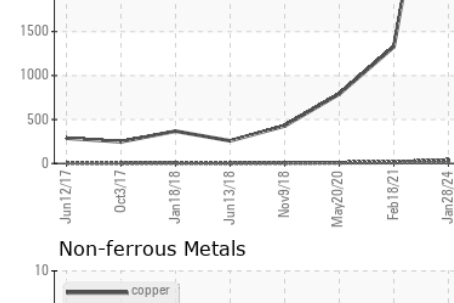
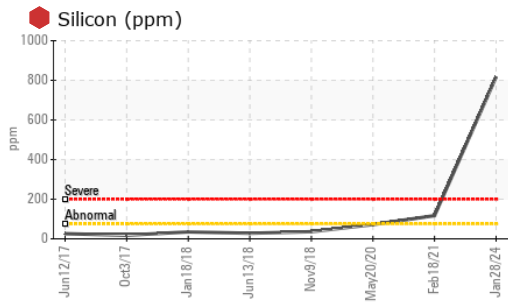
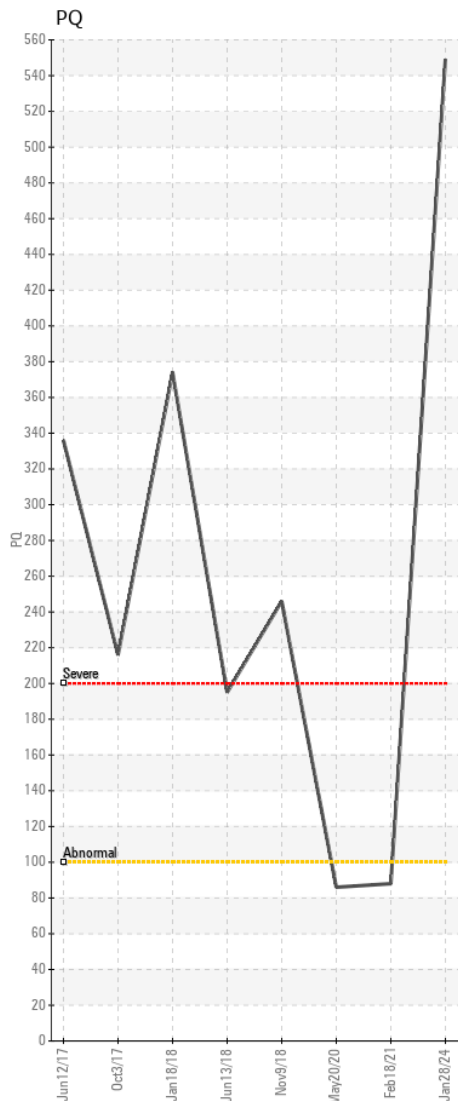
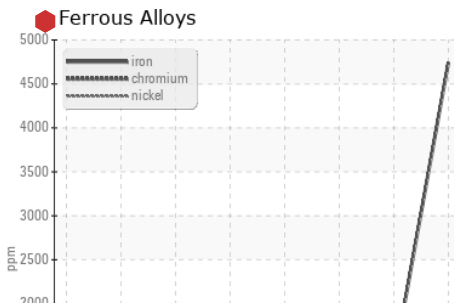
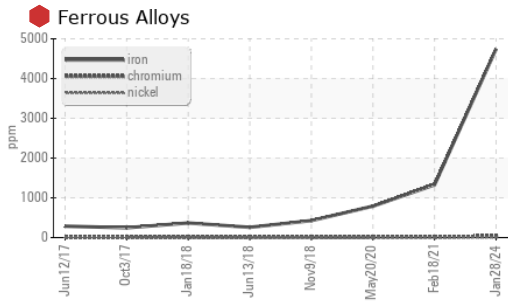
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0202632</b>	JR0078073	JR0052882
Sample Date		Client Info		<b>28 Jan 2024</b>	18 Feb 2021	20 May 2020
Machine Age	hrs	Client Info		<b>9046</b>	5418	4540
Oil Age	hrs	Client Info		<b>5663</b>	0	0
Filter Age	hrs	Client Info		<b>2035</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>SEVERE</b>	ABNORMAL	NORMAL

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>549</b>	88	86
Iron	ppm	ASTM D5185m	>500	<b>4744</b>	1327	790
Chromium	ppm	ASTM D5185m	>10	<b>38</b>	14	9
Nickel	ppm	ASTM D5185m	>10	<b>5</b>	2	<1
Titanium	ppm	ASTM D5185m		<b>14</b>	2	1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>238</b>	34	22
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>7</b>	1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	<b>817</b>	117	72
Potassium	ppm	ASTM D5185m	>20	<b>51</b>	22	11
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185m		<b>24</b>	8	6
Boron	ppm	ASTM D5185m		<b>20</b>	8	8
Barium	ppm	ASTM D5185m		<b>2</b>	<1	<1
Molybdenum	ppm	ASTM D5185m		<b>2</b>	0	0
Manganese	ppm	ASTM D5185m		<b>40</b>	13	9
Magnesium	ppm	ASTM D5185m		<b>21</b>	4	4
Calcium	ppm	ASTM D5185m		<b>32</b>	8	12
Phosphorus	ppm	ASTM D5185m		<b>2343</b>	2110	2027
Zinc	ppm	ASTM D5185m		<b>3</b>	15	14
Sulfur	ppm	ASTM D5185m		<b>31041</b>	24386	23515
Visc @ 40°C	cSt	ASTM D445		<b>234</b>	196	186



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0202632 **Received** : 30 Jan 2024  
**Lab Number** : 06075046 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10857137 **Diagnostician** : Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
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 T: (919)614-2260  
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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)