



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

Machine Id  
**HITACHI 1FFDDP70LKF840546**  
 Component  
**Right Final Drive**  
 Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0199176</b>	JR0157464	JR0137101
Sample Date		Client Info		<b>04 Jan 2024</b>	09 Jan 2023	22 Jul 2022
Machine Age	hrs	Client Info		<b>8005</b>	6349	5614
Oil Age	hrs	Client Info		<b>8005</b>	5614	5614
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>None</b>	N/A	None
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>57</b>	47	57
Iron	ppm	ASTM D5185m	>500	<b>240</b>	214	179
Chromium	ppm	ASTM D5185m	>10	<b>5</b>	4	4
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	2	1
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	3	0
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

There is no indication of any contamination in the oil.

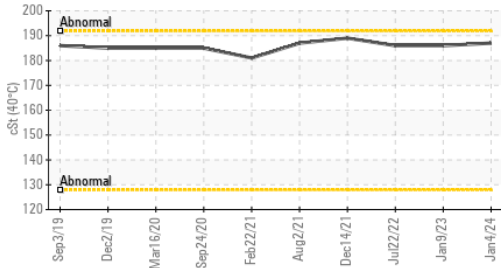
Silicon	ppm	ASTM D5185m	>75	<b>23</b>	15	12
Potassium	ppm	ASTM D5185m	>20	<b>16</b>	14	8
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	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

### FLUID CONDITION

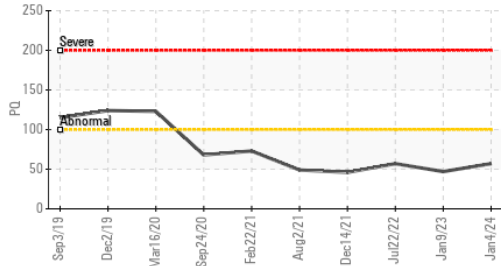
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	3	1
Boron	ppm	ASTM D5185m		<b>45</b>	45	46
Barium	ppm	ASTM D5185m		<b>15</b>	7	4
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>5</b>	5	4
Magnesium	ppm	ASTM D5185m		<b>2</b>	1	0
Calcium	ppm	ASTM D5185m		<b>17</b>	15	12
Phosphorus	ppm	ASTM D5185m		<b>508</b>	534	423
Zinc	ppm	ASTM D5185m		<b>44</b>	47	37
Sulfur	ppm	ASTM D5185m		<b>16495</b>	17780	15155
Visc @ 40°C	cSt	ASTM D445		<b>187</b>	186	186

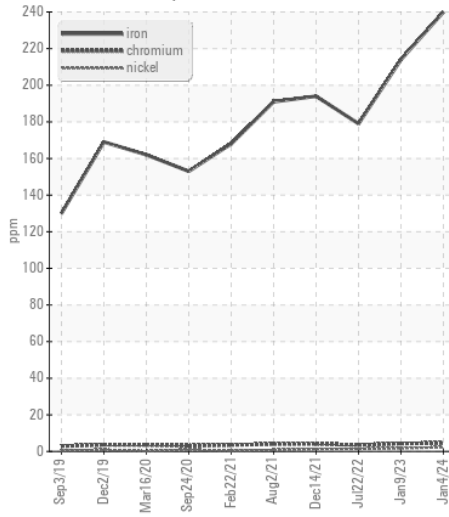
Viscosity @ 40°C



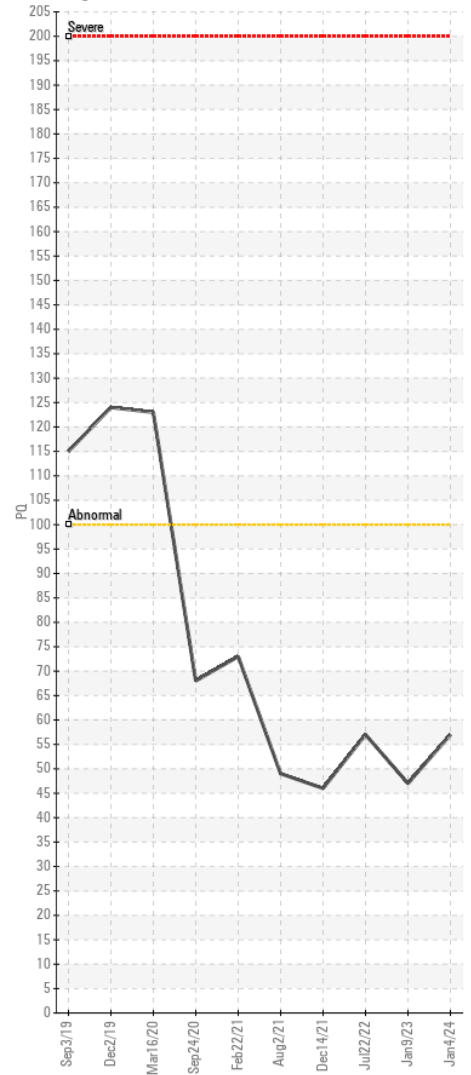
PQ



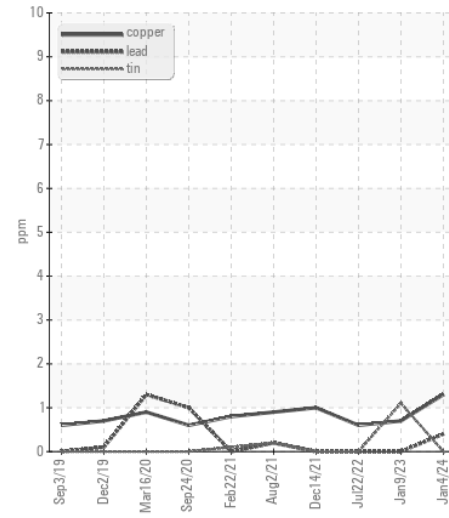
Ferrous Alloys



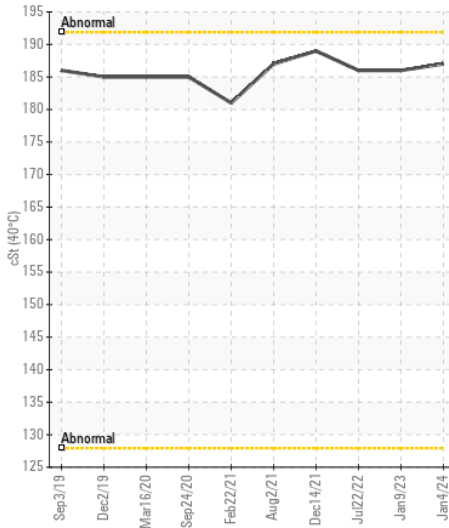
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : JR0199176 Recieved : 08 Jan 2024  
 Lab Number : 06054277 Diagnosed : 09 Jan 2024  
 Unique Number : 10820226 Diagnostician : Don Baldrige  
 Test Package : CONST ( Additional Tests: PQ )

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)

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