



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

Area

**[16W16595]**

Machine Id

**HITACHI FF00ASP920190**

Component

**Right Final Drive**

Fluid

**JOHN DEERE GL-5 80W90 (3 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: 16W16595 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0217327</b>	JR0202874	JR0098876
Sample Date		Client Info		<b>08 Jul 2024</b>	30 Jan 2024	11 Aug 2021
Machine Age	hrs	Client Info		<b>13107</b>	11748	11748
Oil Age	hrs	Client Info		<b>269</b>	2000	1000
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	SEVERE	SEVERE

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>114</b>	1859	147
Iron	ppm	ASTM D5185m	>500	<b>204</b>	▲ 2614	▲ 601
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	▲ 23	6
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	3	<1
Titanium	ppm	ASTM D5185m		<b>1</b>	9	4
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>12</b>	● 83	● 49
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	5	1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

There is no indication of any contamination in the component.

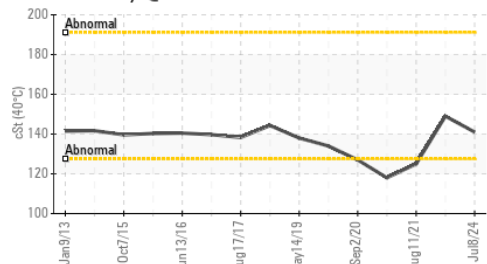
Silicon	ppm	ASTM D5185m	>75	<b>70</b>	▲ 737	▲ 291
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	15	8
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*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

### FLUID CONDITION

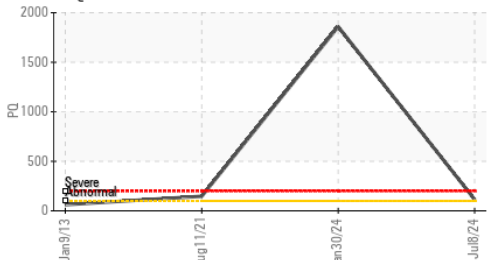
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>3</b>	10	5
Boron	ppm	ASTM D5185m		<b>30</b>	102	120
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	4	3
Manganese	ppm	ASTM D5185m		<b>1</b>	17	4
Magnesium	ppm	ASTM D5185m		<b>3</b>	16	13
Calcium	ppm	ASTM D5185m		<b>59</b>	80	95
Phosphorus	ppm	ASTM D5185m		<b>2079</b>	1721	1922
Zinc	ppm	ASTM D5185m		<b>12</b>	32	38
Sulfur	ppm	ASTM D5185m		<b>28141</b>	25115	18347
Visc @ 40°C	cSt	ASTM D445		<b>141</b>	149	125

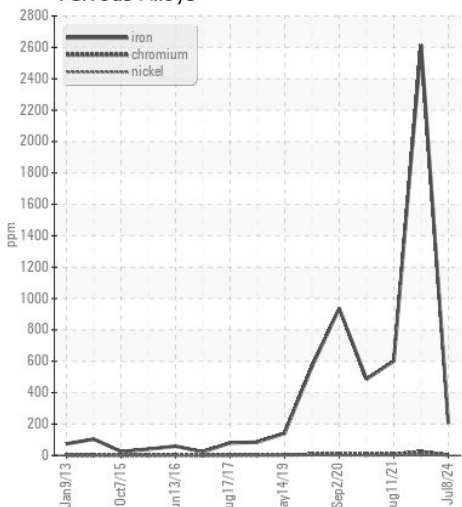
Viscosity @ 40°C



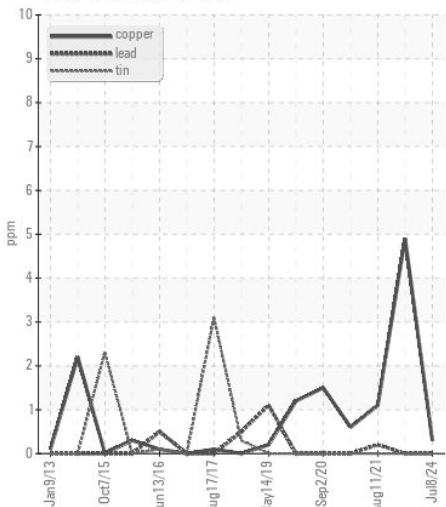
PQ



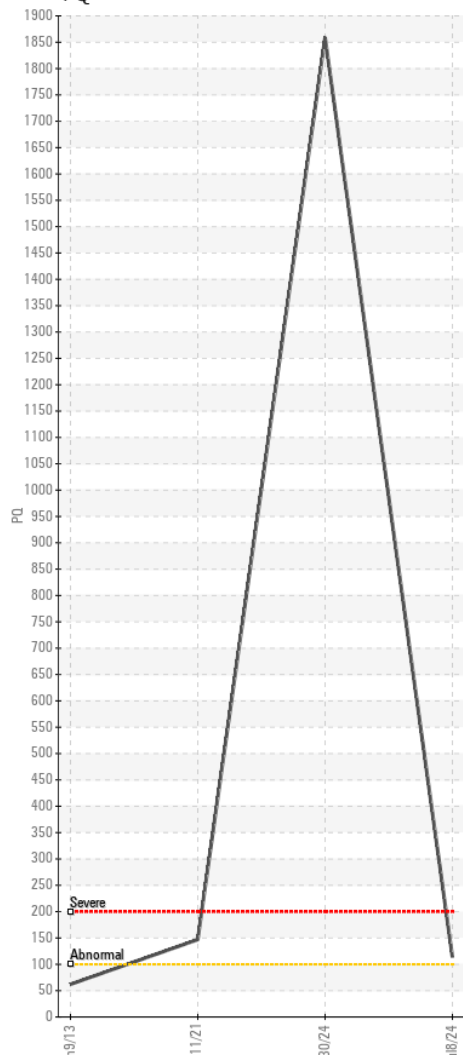
Ferrous Alloys



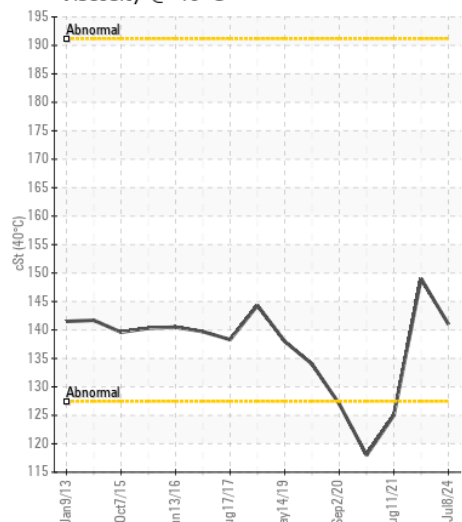
Non-ferrous Metals



PQ



Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0217327 **Received** : 10 Jul 2024  
**Lab Number** : 06232502 **Tested** : 11 Jul 2024  
**Unique Number** : 11115995 **Diagnosed** : 12 Jul 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**SULLIVAN EASTERN INC**  
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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)