



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

Area  
**[05W46818]**

Machine Id  
**HITACHI 245LC-6 HCMDFD60P00700165**

Component  
**Right Final Drive**

Fluid  
**JOHN DEERE GL-5 80W90 (2 GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0217788</b>	JR0183770	JR0146799
Sample Date		Client Info		<b>24 May 2024</b>	08 Sep 2023	27 Sep 2022
Machine Age	hrs	Client Info		<b>4461</b>	4461	3937
Oil Age	hrs	Client Info		<b>1000</b>	524	2496
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>215</b>	180	178
Iron	ppm	ASTM D5185m	>500	<b>396</b>	354	▲ 727
Chromium	ppm	ASTM D5185m	>10	<b>4</b>	3	6
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	<1	2
Titanium	ppm	ASTM D5185m		<b>2</b>	2	4
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	● <b>20</b>	● 19	● 58
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>1</b>	0	2
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

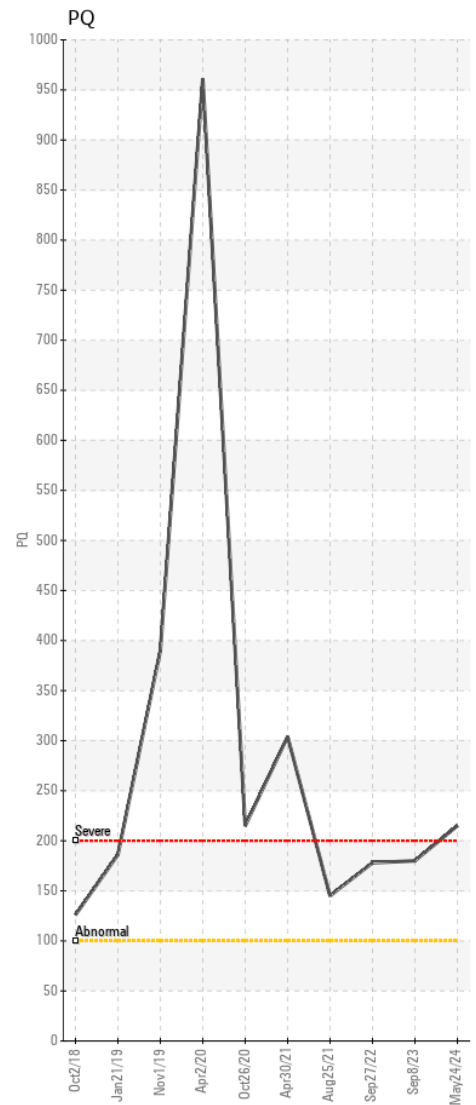
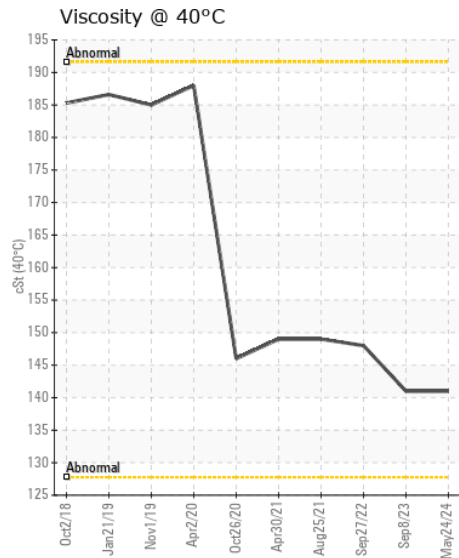
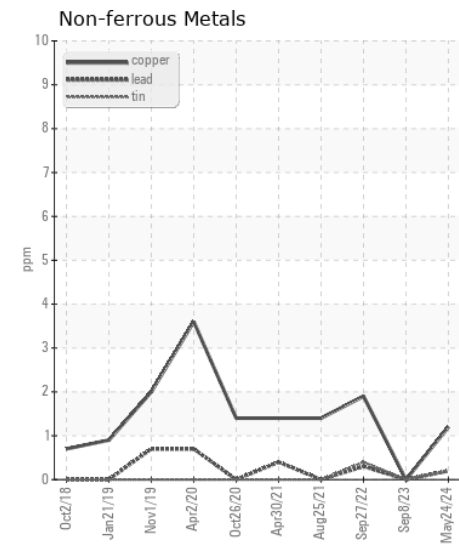
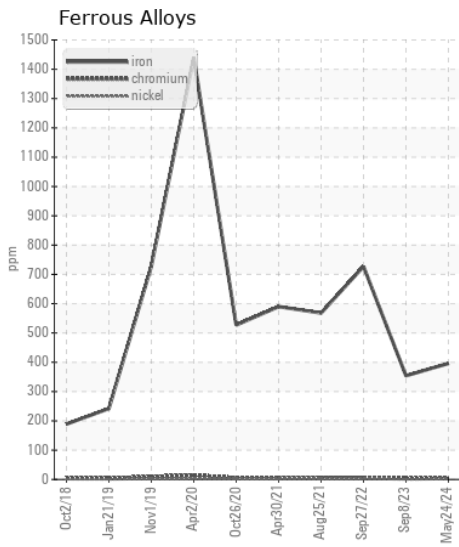
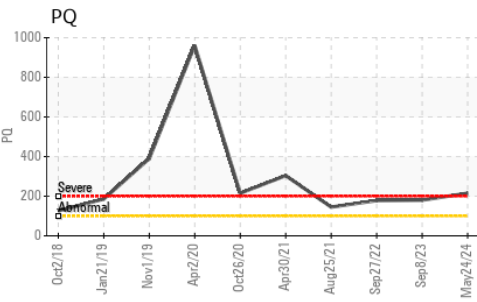
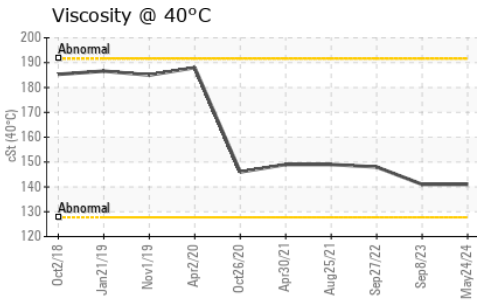
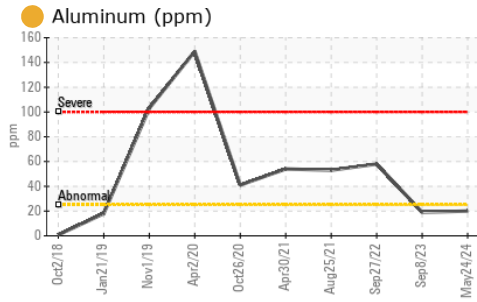
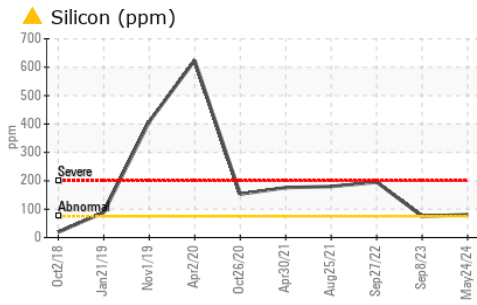
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ <b>81</b>	▲ 75	▲ 195
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	6	18
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	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>2</b>	3	9
Boron	ppm	ASTM D5185m		<b>105</b>	101	13
Barium	ppm	ASTM D5185m		<b>2</b>	0	3
Molybdenum	ppm	ASTM D5185m		<b>1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>4</b>	3	8
Magnesium	ppm	ASTM D5185m		<b>6</b>	8	11
Calcium	ppm	ASTM D5185m		<b>84</b>	19	34
Phosphorus	ppm	ASTM D5185m		<b>852</b>	792	426
Zinc	ppm	ASTM D5185m		<b>41</b>	11	33
Sulfur	ppm	ASTM D5185m		<b>18574</b>	21629	21037
Visc @ 40°C	cSt	ASTM D445		<b>141</b>	141	148



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0217788  
**Lab Number** : 06194718  
**Unique Number** : 11056841  
**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 29 May 2024  
**Tested** : 31 May 2024  
**Diagnosed** : 31 May 2024 - Don Baldrige

**JRE - MANASSAS PARK**  
 9107 OWENS DRIVE  
 MANASSAS PARK, VA  
 US 20111

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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)