



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

### [H&M QUALITY]

Machine Id  
**JOHN DEERE 748L PM151063 (S/N 717590)**

Component  
**Front Differential**

Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0177110</b>	---	---
Sample Date		Client Info		<b>24 Jun 2024</b>	---	---
Machine Age	hrs	Client Info		<b>553</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>MARGINAL</b>	---	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>17</b>	---	---
Iron	ppm	ASTM D5185m	>500	<b>25</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	---	---
Lead	ppm	ASTM D5185m	>25	<b>2</b>	---	---
Copper	ppm	ASTM D5185m	>100	<b>18</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

### CONTAMINATION

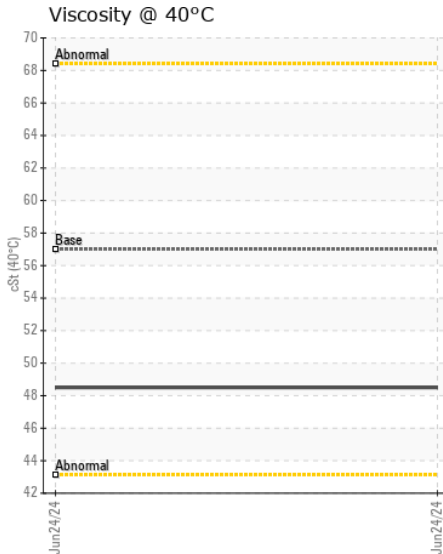
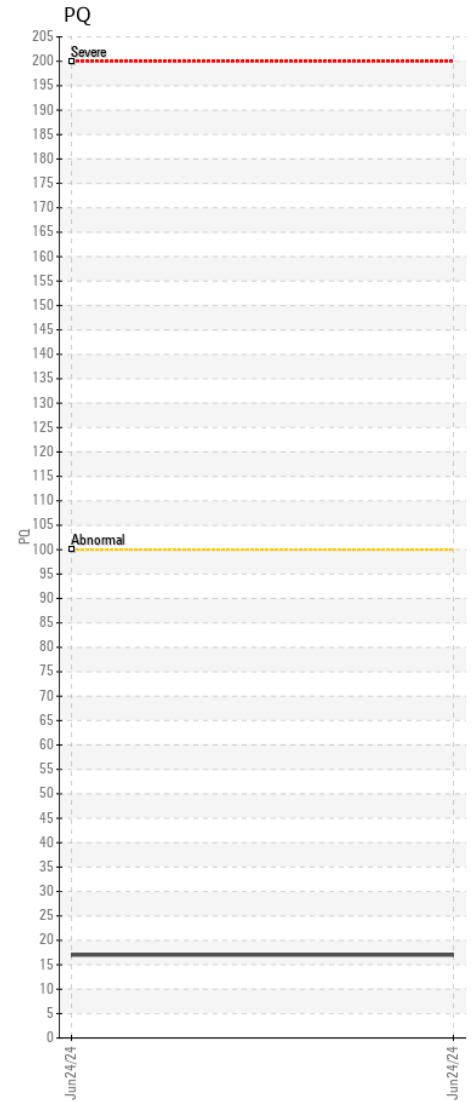
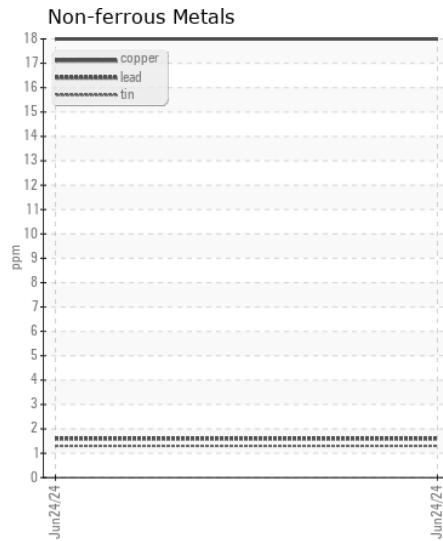
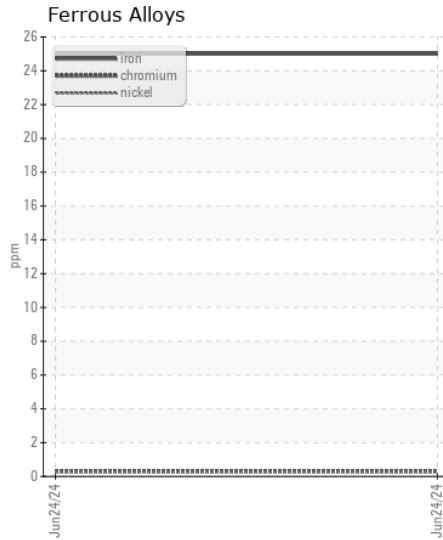
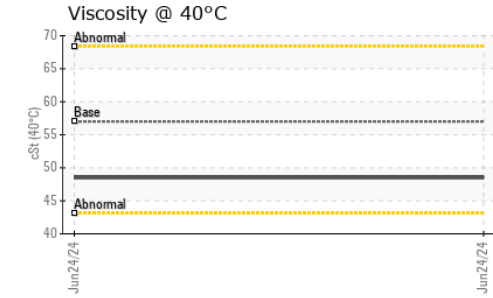
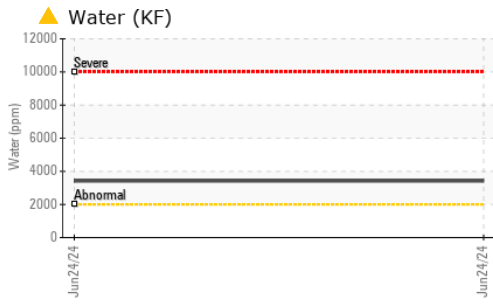
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>4</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Water	%	ASTM D6304	>.2	<b>▲ 0.342</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 3420</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>.2	<b>0.2%</b>	---	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Boron	ppm	ASTM D5185m	6	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	145	<b>93</b>	---	---
Calcium	ppm	ASTM D5185m	3570	<b>3499</b>	---	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1070</b>	---	---
Zinc	ppm	ASTM D5185m	1640	<b>1274</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3798</b>	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>48.5</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : JR0177110

**Lab Number** : 06224819

**Unique Number** : 11103016

**Test Package** : CONST ( Additional Tests: KF, PQ )

**Received** : 01 Jul 2024

**Tested** : 02 Jul 2024

**Diagnosed** : 02 Jul 2024 - Don Baldrige

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)

**JRE - MOUNT GILEAD**

305 NORTH MAIN STREET

MOUNT GILEAD, NC

US 27306

Contact: TIM ELSWORTH

telsworth@jamesriverequipment.com

T: (910)439-5653

F: (910)439-4568