



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

Area

[W49235]

Machine Id

JOHN DEERE 324L 1LU324LXEZB052566

Component

Front Axle

Fluid

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

**RECOMMENDATION**

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0179486	---	---
Sample Date		Client Info		16 Jan 2024	---	---
Machine Age	hrs	Client Info		1097	---	---
Oil Age	hrs	Client Info		1097	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

**WEAR**

Metal levels are typical for a new component breaking in.

PQ		ASTM D8184		99	---	---
Iron	ppm	ASTM D5185m	>750	188	---	---
Chromium	ppm	ASTM D5185m	>11	2	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>21	<1	---	---
Lead	ppm	ASTM D5185m	>49	<1	---	---
Copper	ppm	ASTM D5185m	>101	6	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

**CONTAMINATION**

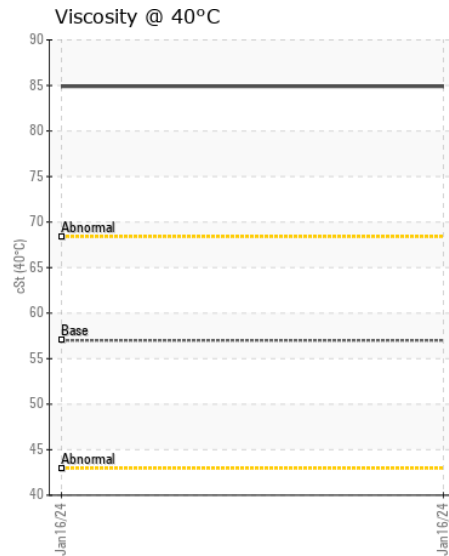
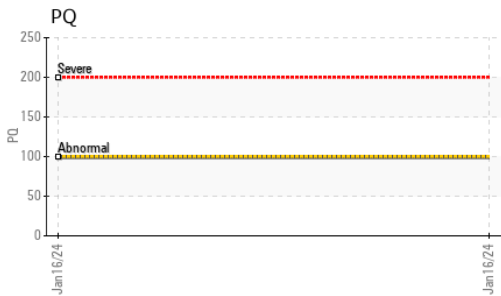
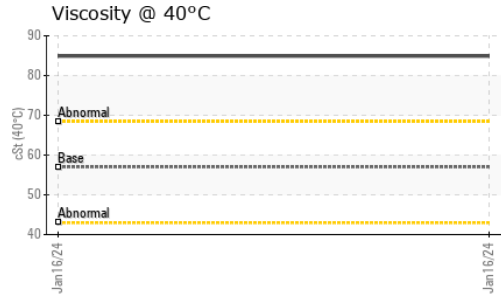
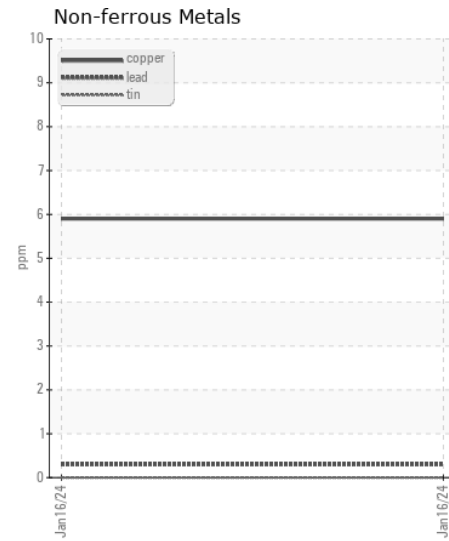
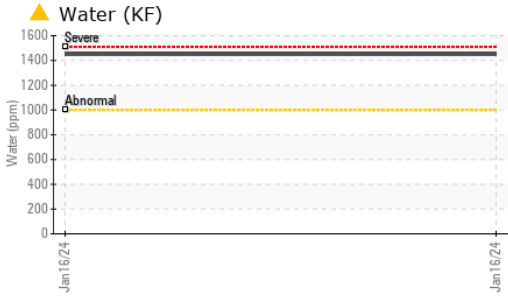
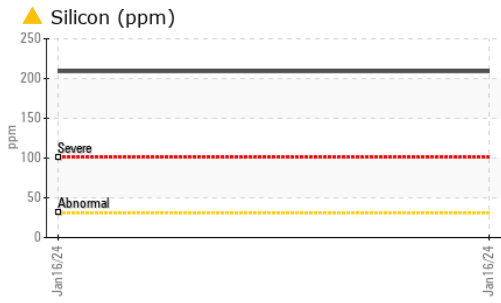
Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>31	▲ 209	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Water	%	ASTM D6304	>0.1	▲ 0.145	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 1450	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	---	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m	>51	7	---	---
Boron	ppm	ASTM D5185m	6	66	---	---
Barium	ppm	ASTM D5185m	0	0	---	---
Molybdenum	ppm	ASTM D5185m	0	2	---	---
Manganese	ppm	ASTM D5185m		4	---	---
Magnesium	ppm	ASTM D5185m	145	2	---	---
Calcium	ppm	ASTM D5185m	3570	556	---	---
Phosphorus	ppm	ASTM D5185m	1290	748	---	---
Zinc	ppm	ASTM D5185m	1640	1541	---	---
Sulfur	ppm	ASTM D5185m		6126	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	84.9	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0179486 **Received** : 18 Jan 2024  
**Lab Number** : 06064540 **Diagnosed** : 21 Jan 2024  
**Unique Number** : 10835922 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF, PQ )

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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)