



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[W49235]

Machine Id

JOHN DEERE 324L 1LU324LXEZB052566

Component

Rear Left Final Drive

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		JR0179480	---	---
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

The copper level is abnormal. All other metal levels are typical for a new component breaking in.

PQ		ASTM D8184	>1250	260	---	---
Iron	ppm	ASTM D5185m	>750	382	---	---
Chromium	ppm	ASTM D5185m	>9	6	---	---
Nickel	ppm	ASTM D5185m	>10	<1	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>40	2	---	---
Lead	ppm	ASTM D5185m	>15	4	---	---
Copper	ppm	ASTM D5185m	>40	▲ 296	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

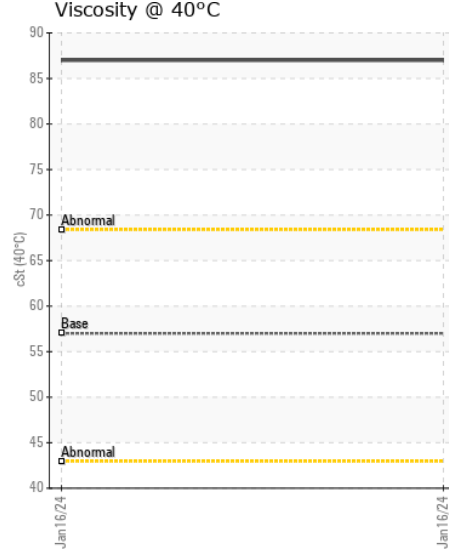
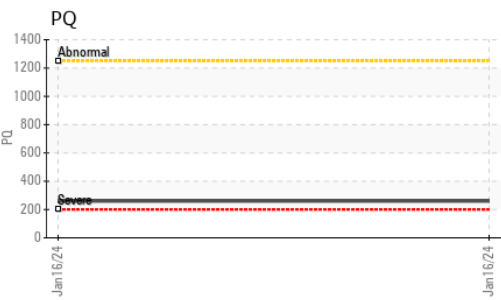
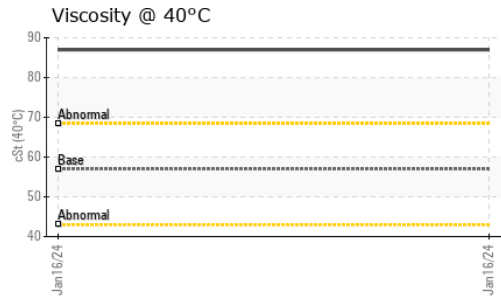
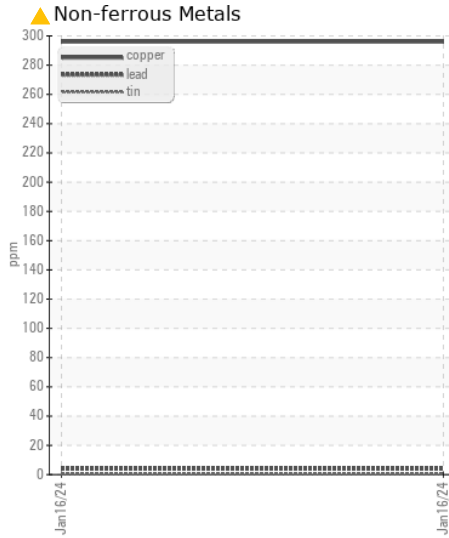
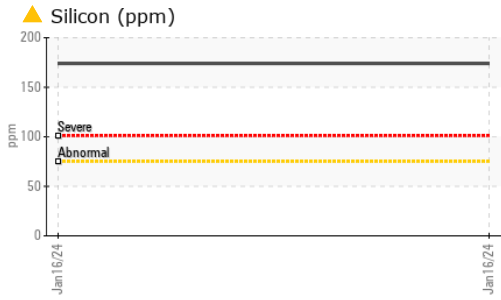
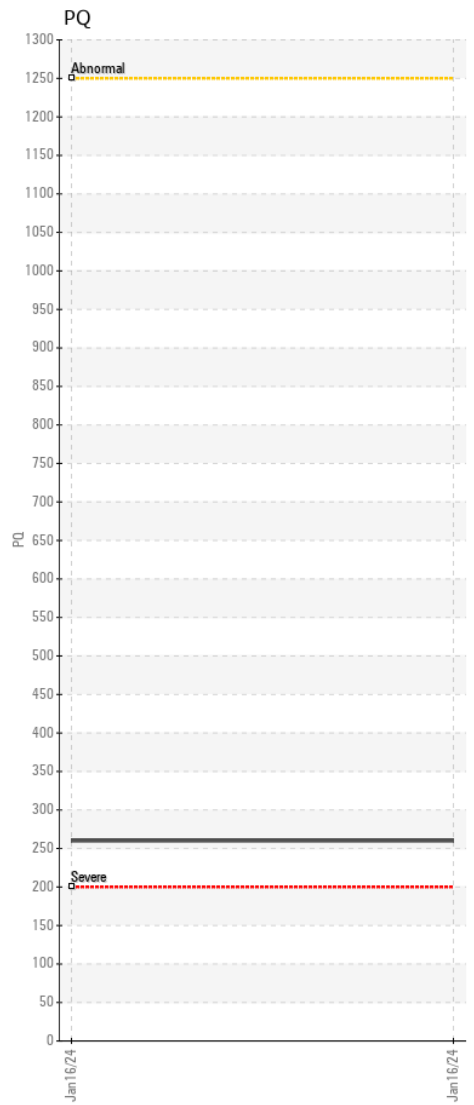
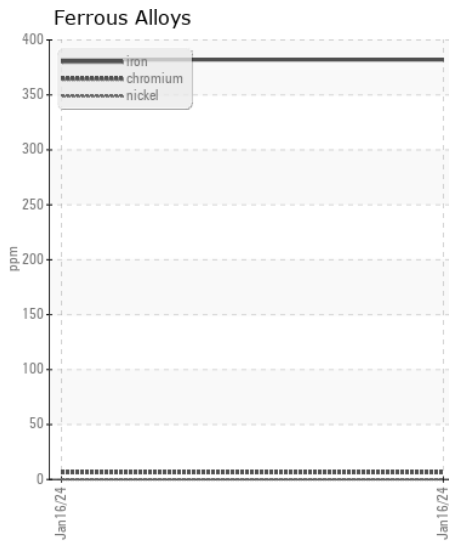
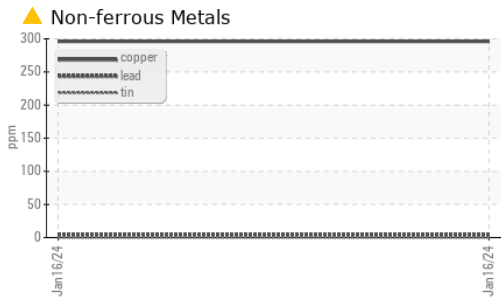
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>75	▲ 174	---	---
Potassium	ppm	ASTM D5185m	>20	<1	---	---
Water		WC Method	>0.075	NEG	---	---
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	>0.075	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	6	---	---
Boron	ppm	ASTM D5185m	6	114	---	---
Barium	ppm	ASTM D5185m	0	17	---	---
Molybdenum	ppm	ASTM D5185m	0	0	---	---
Manganese	ppm	ASTM D5185m		6	---	---
Magnesium	ppm	ASTM D5185m	145	4	---	---
Calcium	ppm	ASTM D5185m	3570	823	---	---
Phosphorus	ppm	ASTM D5185m	1290	747	---	---
Zinc	ppm	ASTM D5185m	1640	1805	---	---
Sulfur	ppm	ASTM D5185m		7388	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	87.0	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0179480 **Received** : 18 Jan 2024
Lab Number : 06064557 **Diagnosed** : 21 Jan 2024
Unique Number : 10835939 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: 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)