

OIL ANALYSIS REPORT

Sample Rating Trend

WATER


Area

[W49235]

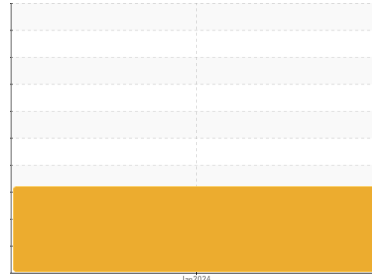
Machine Id

JOHN DEERE 324L 1LU324LXEZB052566

Component

Front Axle

Fluid

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

DIAGNOSIS
▲ 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.

Wear

Metal levels are typical for a new component breaking in.

▲ Contamination

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

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	JR0179486	---	---
Sample Date	Client Info	16 Jan 2024	---	---
Machine Age	hrs	1097	---	---
Oil Age	hrs	1097	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
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	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
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	---

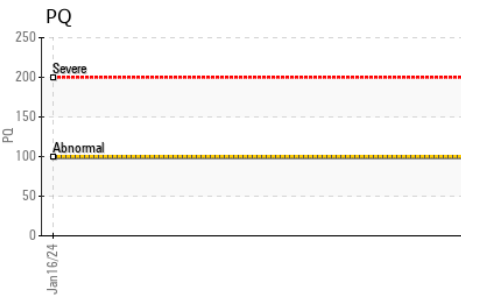
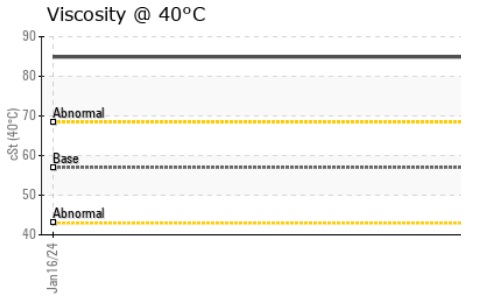
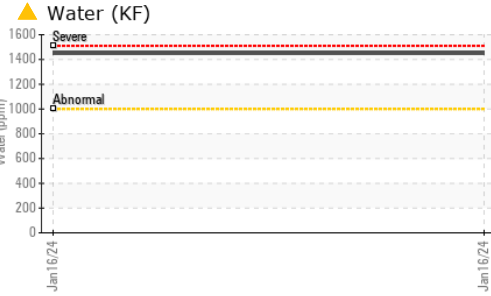
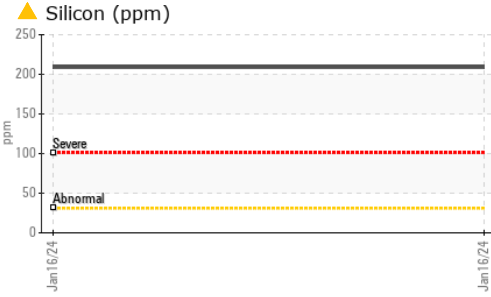
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >31	▲ 209	---
Sodium	ppm	ASTM D5185m >51	7	---
Potassium	ppm	ASTM D5185m >20	3	---
Water	%	ASTM D6304 >0.1	▲ 0.145	---
ppm Water	ppm	ASTM D6304 >1000	▲ 1450	---

VISUAL

method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	---
Yellow Metal	scalar	*Visual NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	---
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%	---
Free Water	scalar	*Visual	NEG	---

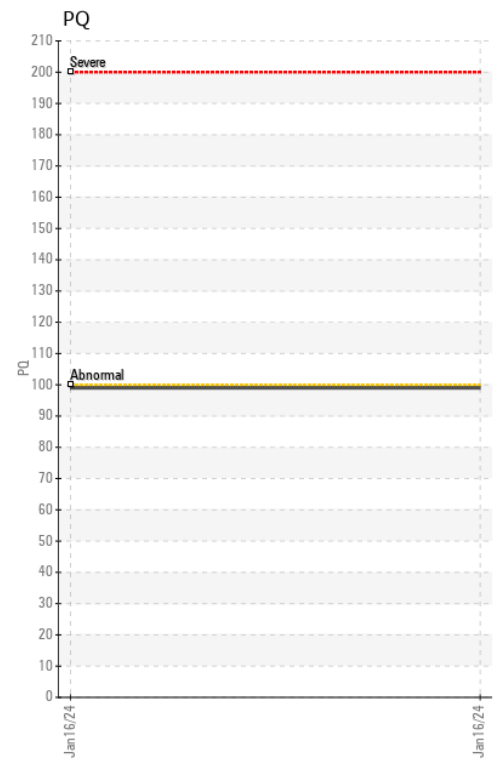
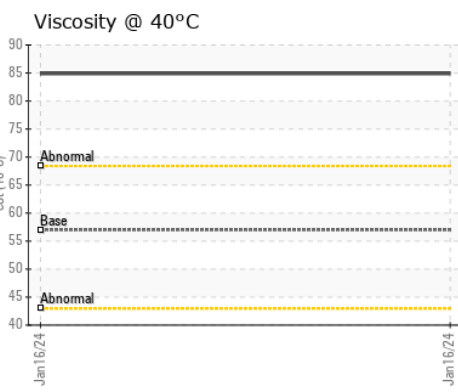
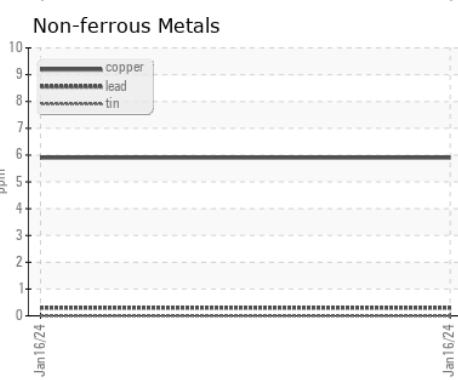
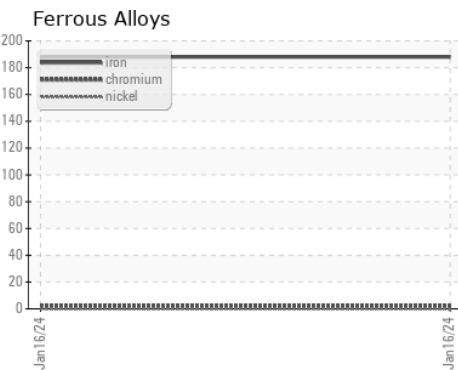
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	57.0	84.9	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0179486 **Recieved** : 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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 11047 LEADBETTER RD
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 US 23005
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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)