



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 2025R 1LV2025RCJJ102958

Component
Hydraulic System

Fluid
JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- QTS)

RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0189679	JR0135426	JR0093433
Sample Date		Client Info		04 Dec 2023	06 Dec 2022	22 Dec 2021
Machine Age	hrs	Client Info		208	315	164
Oil Age	hrs	Client Info		0	315	0
Filter Age	hrs	Client Info		0	315	0
Oil Changed		Client Info		N/A	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	12	17	34
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	<1	2
Aluminum	ppm	ASTM D5185m	>10	2	1	3
Lead	ppm	ASTM D5185m	>10	<1	<1	3
Copper	ppm	ASTM D5185m	>75	16	22	49
Tin	ppm	ASTM D5185m	>10	<1	0	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

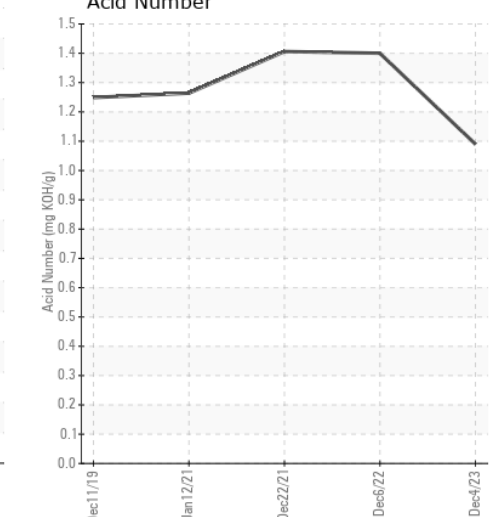
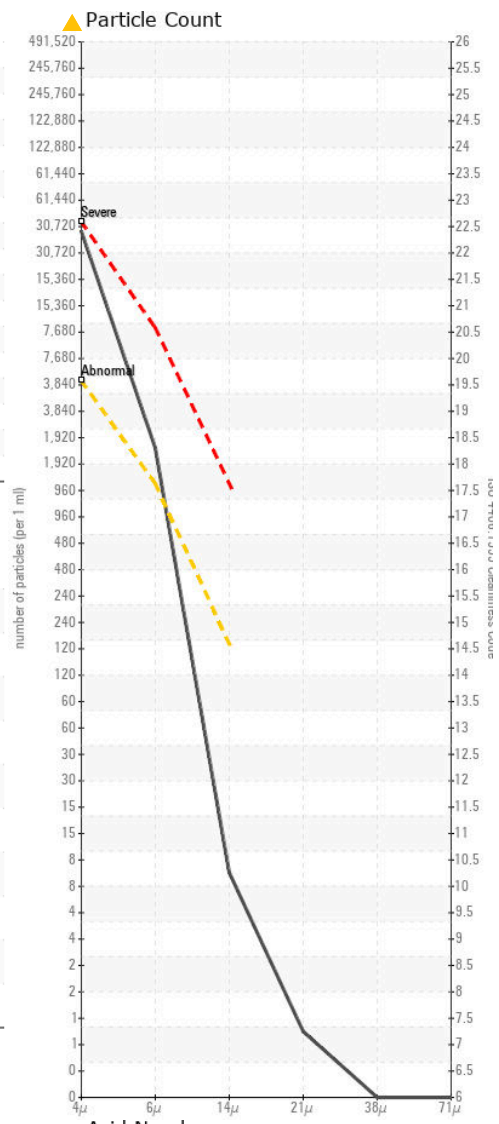
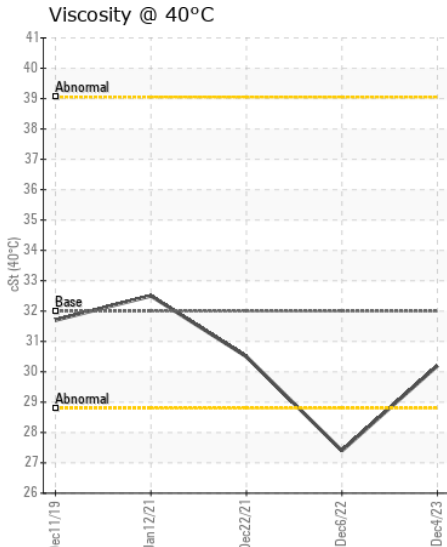
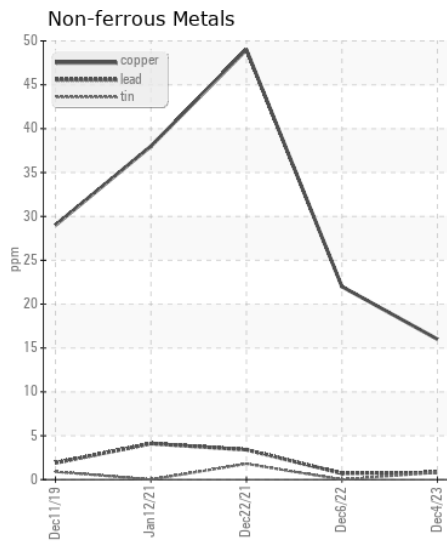
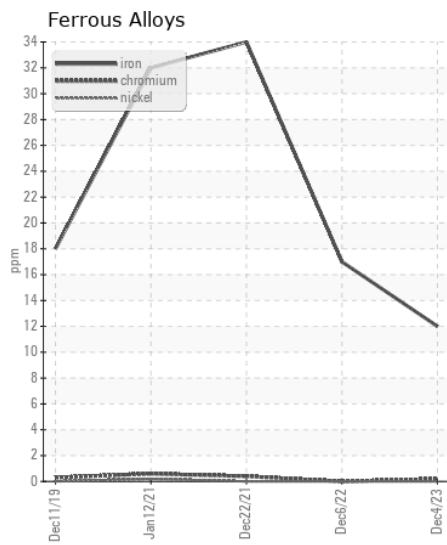
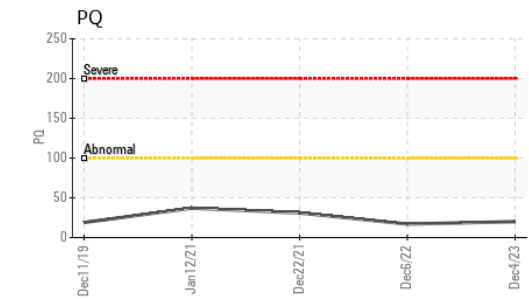
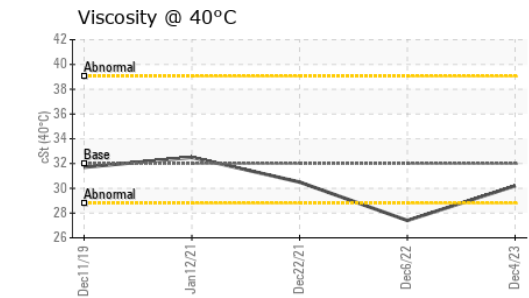
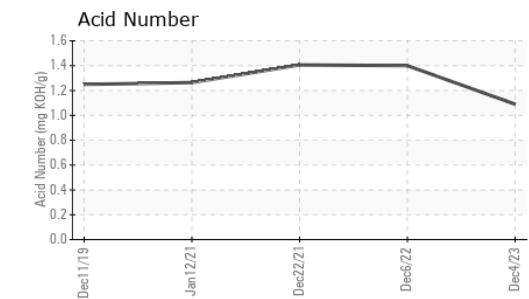
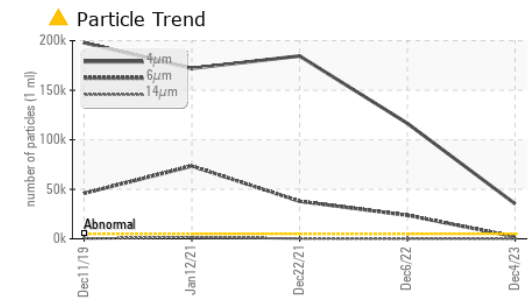
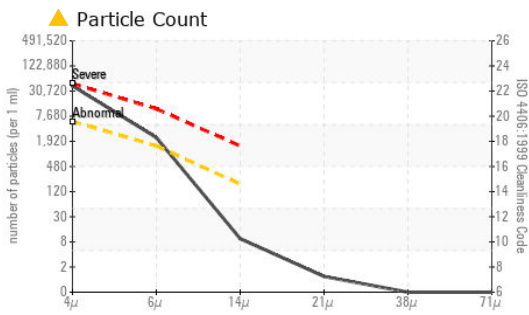
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	10	10	▲ 21
Potassium	ppm	ASTM D5185m	>20	3	3	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 35366	▲ 116577	▲ 184554
Particles >6µm		ASTM D7647	>1300	▲ 2073	▲ 23797	▲ 37886
Particles >14µm		ASTM D7647	>160	8	114	▲ 239
Particles >21µm		ASTM D7647	>40	1	16	15
Particles >38µm		ASTM D7647	>10	0	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/18/10	▲ 24/22/14	▲ 25/22/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		0	0	5
Boron	ppm	ASTM D5185m		<1	<1	7
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		94	84	84
Calcium	ppm	ASTM D5185m		3386	3469	3572
Phosphorus	ppm	ASTM D5185m		1033	1002	1058
Zinc	ppm	ASTM D5185m		1208	1194	1253
Sulfur	ppm	ASTM D5185m		3918	4155	3208
Acid Number (AN)	mg KOH/g	ASTM D8045		1.09	1.40	1.406
Visc @ 40°C	cSt	ASTM D445	32	30.2	27.4	30.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189679 **Received** : 11 Jan 2024
Lab Number : 06057996 **Diagnosed** : 12 Jan 2024
Unique Number : 10829378 **Diagnostician** : Wes Davis
Test Package : CONST (Additional Tests: PQ)

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)

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