



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[44164]
 Machine Id
JOHN DEERE 200G 1FF200GXCMF085131
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0199486	JR0183802	JR0174467
Sample Date		Client Info		29 Dec 2023	16 Aug 2023	21 May 2023
Machine Age	hrs	Client Info		2897	2444	1971
Oil Age	hrs	Client Info		2897	2444	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	16	9	15
Iron	ppm	ASTM D5185m	>32	3	4	4
Chromium	ppm	ASTM D5185m	>9	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	0	<1	0
Lead	ppm	ASTM D5185m	>28	0	<1	<1
Copper	ppm	ASTM D5185m	>50	1	1	2
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

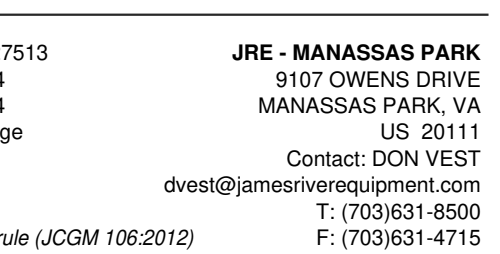
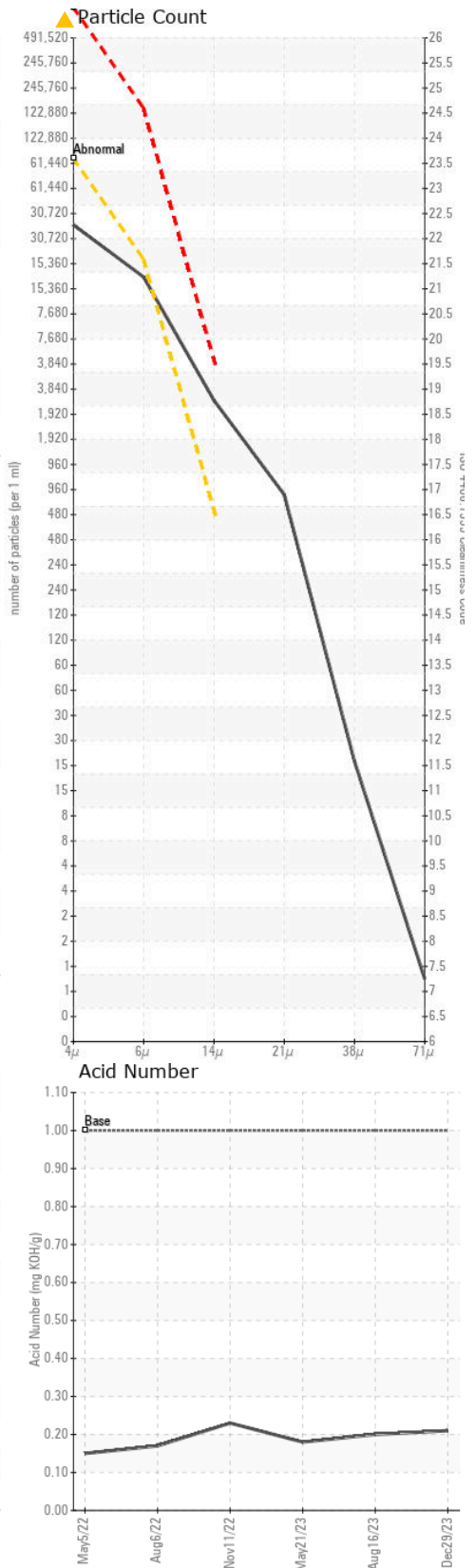
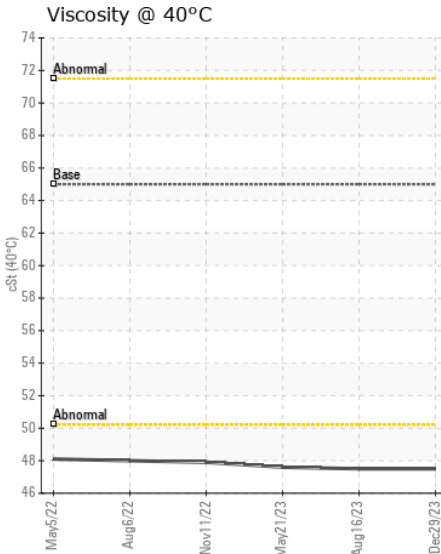
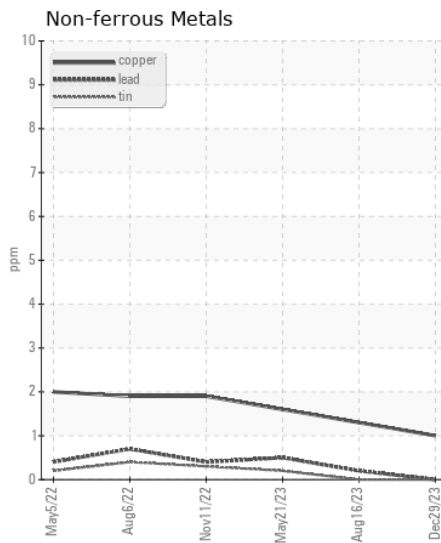
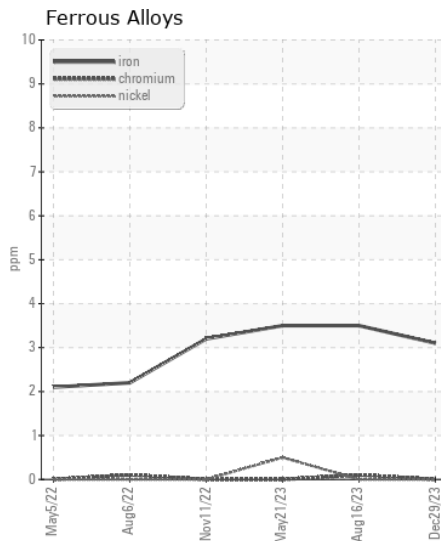
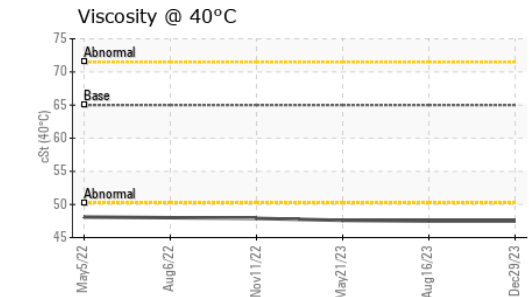
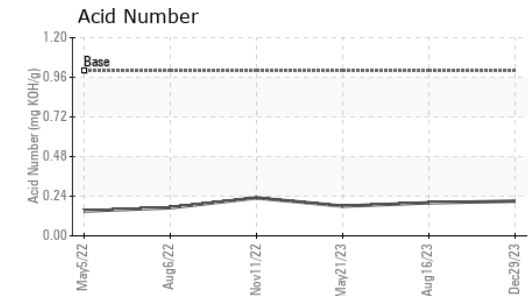
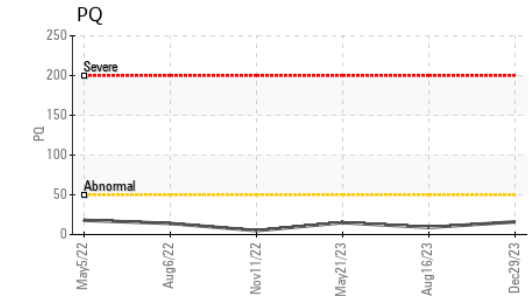
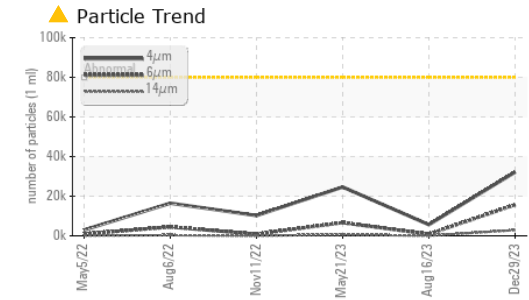
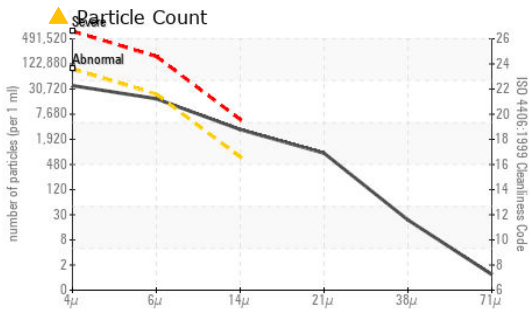
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>11	1	2	2
Potassium	ppm	ASTM D5185m	>20	0	2	1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	32152	5622	24632
Particles >6µm		ASTM D7647	>20000	15664	847	6631
Particles >14µm		ASTM D7647	>640	▲ 2873	42	596
Particles >21µm		ASTM D7647	>160	▲ 785	9	144
Particles >38µm		ASTM D7647	>40	20	0	2
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	▲ 22/21/19	20/17/13	22/20/16
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.075	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	<1	2	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	3	1
Calcium	ppm	ASTM D5185m	87	1	9	7
Phosphorus	ppm	ASTM D5185m	727	496	505	518
Zinc	ppm	ASTM D5185m	900	17	30	31
Sulfur	ppm	ASTM D5185m	1500	32	131	123
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.21	0.20	0.18
Visc @ 40°C	cSt	ASTM D445	65	47.5	47.5	47.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0199486 **Received** : 09 Jan 2024
Lab Number : 06055859 **Diagnosed** : 10 Jan 2024
Unique Number : 10821808 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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 US 20111
 Contact: DON VEST
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Certificate L2367
 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)