



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[CHANEY ENTERPRISES]
 Machine Id
JOHN DEERE 624L 1DW624LZVLF706825
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196037	JR0190106	JR0182017
Sample Date		Client Info		23 Feb 2024	02 Nov 2023	25 Jul 2023
Machine Age	hrs	Client Info		6930	6434	6100
Oil Age	hrs	Client Info		0	4216	4483
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				SEVERE	SEVERE	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		15	12	12
Iron	ppm	ASTM D5185m	>20	4	2	2
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	2	<1	0
Copper	ppm	ASTM D5185m	>75	<1	1	<1
Tin	ppm	ASTM D5185m	>10	2	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

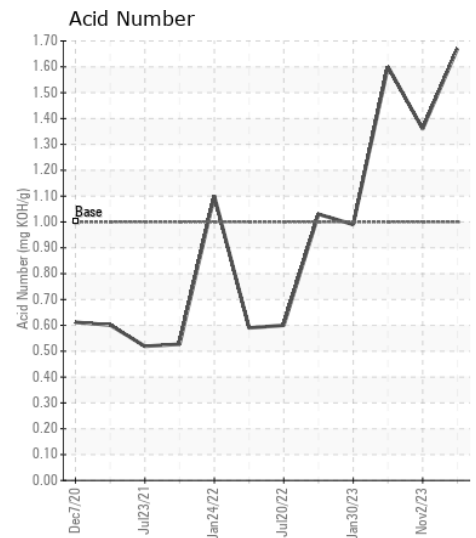
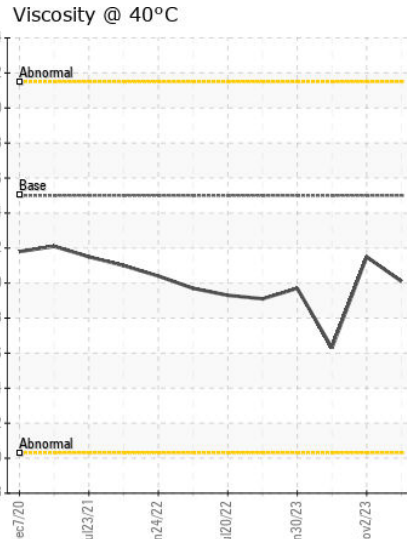
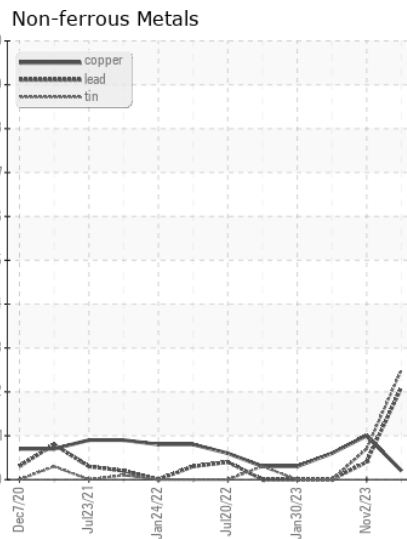
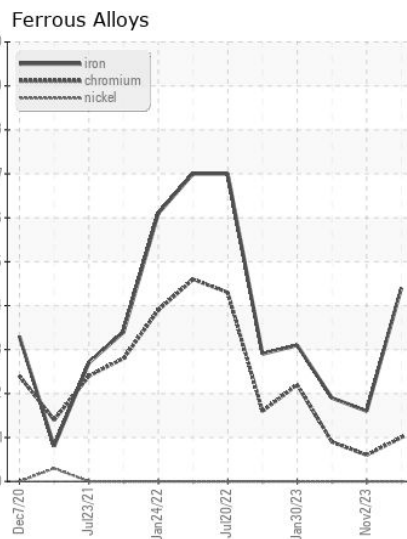
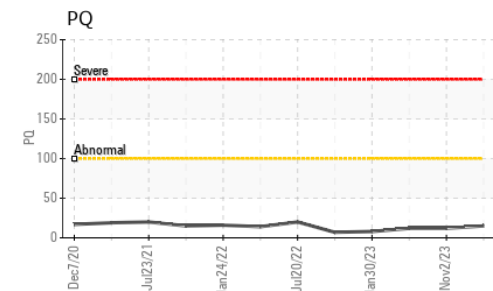
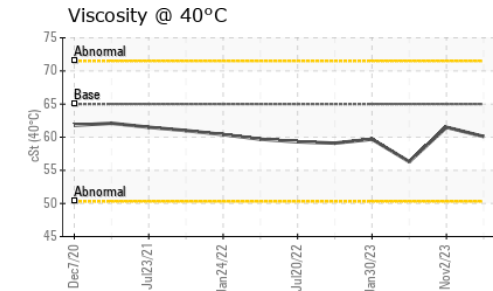
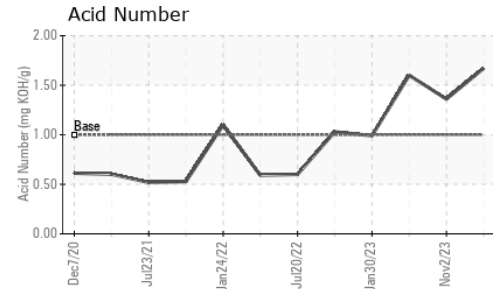
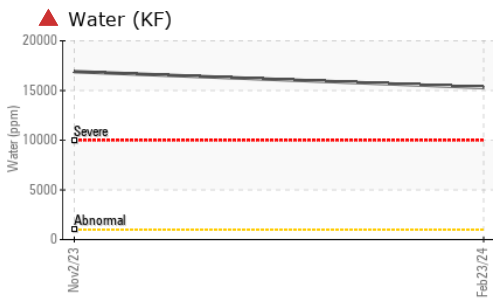
Appearance is milky. There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>20	4	4	3
Potassium	ppm	ASTM D5185m	>20	5	2	1
Water	%	ASTM D6304	>0.1	▲ 1.53	▲ 1.69	---
ppm Water	ppm	ASTM D6304	>1000	▲ 15300	▲ 16900	---
Particles >4µm		ASTM D7647	>5000	---	539	991
Particles >6µm		ASTM D7647	>1300	---	294	170
Particles >14µm		ASTM D7647	>160	---	50	19
Particles >21µm		ASTM D7647	>40	---	17	7
Particles >38µm		ASTM D7647	>10	---	3	1
Particles >71µm		ASTM D7647	>3	---	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	16/15/13	17/15/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	● MILKY	● MILKY	NORML
Odor	scalar	*Visual	NORML	● NORML	● NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	▲ 0.2%	NEG

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		6	2	3
Boron	ppm	ASTM D5185m		12	11	13
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		30	31	25
Calcium	ppm	ASTM D5185m	87	1700	1624	2283
Phosphorus	ppm	ASTM D5185m	727	978	902	981
Zinc	ppm	ASTM D5185m	900	1203	1111	1175
Sulfur	ppm	ASTM D5185m	1500	2827	2664	3652
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.67	1.36	1.60
Visc @ 40°C	cSt	ASTM D445	65	60.1	61.5	56.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196037 **Received** : 27 Feb 2024
Lab Number : 06102402 **Tested** : 29 Feb 2024
Unique Number : 10900632 **Diagnosed** : 29 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

JRE - MANASSAS PARK
 9107 OWENS DRIVE
 MANASSAS PARK, VA
 US 20111

Contact: DON VEST
 dvest@jamesriverequipment.com
 T: (703)631-8500
 F: (703)631-4715

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)