



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[05W45990]

Machine Id
JOHN DEERE 624L 1DW624LTLLF708606

Component
Rear Differential

Fluid
JOHN DEERE HY-GARD HYD/TRANS (18 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0211032	JR0203334	JR0195870
Sample Date		Client Info		20 Apr 2024	12 Feb 2024	01 Dec 2023
Machine Age	hrs	Client Info		8049	7517	7041
Oil Age	hrs	Client Info		2000	1500	1041
Filter Age	hrs	Client Info		1000	475	1041
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		11	11	73
Iron	ppm	ASTM D5185m	>500	30	24	31
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1
Lead	ppm	ASTM D5185m	>25	22	20	▲ 31
Copper	ppm	ASTM D5185m	>100	10	7	9
Tin	ppm	ASTM D5185m	>10	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

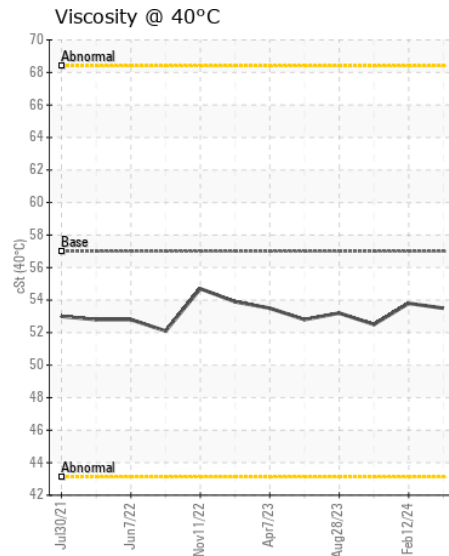
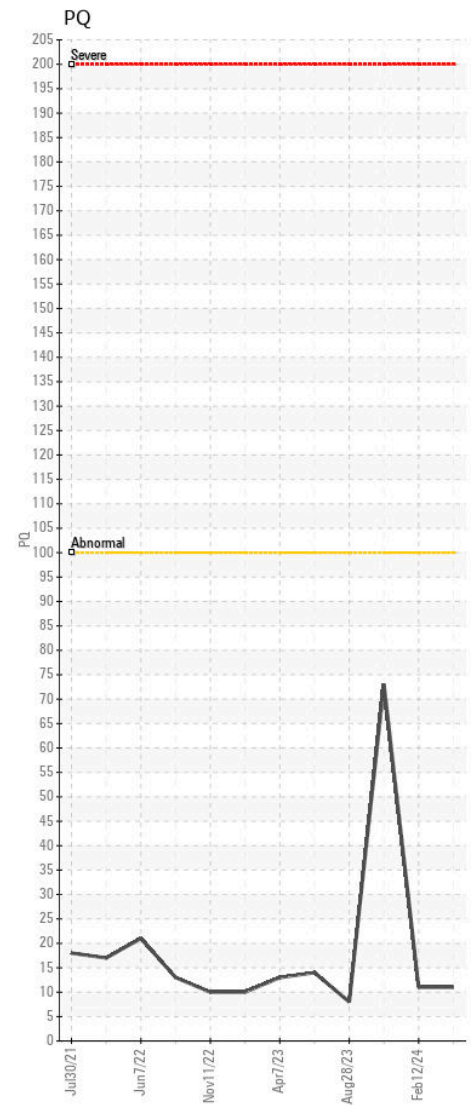
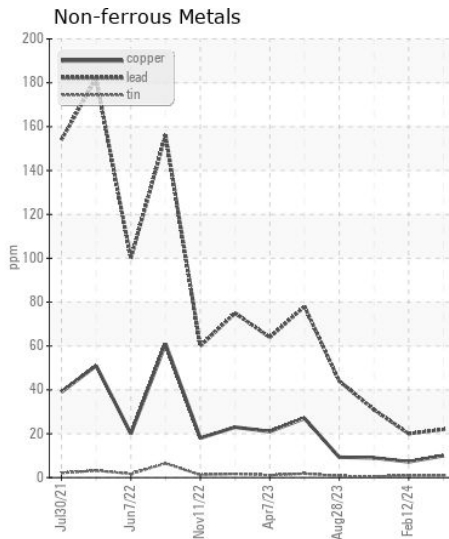
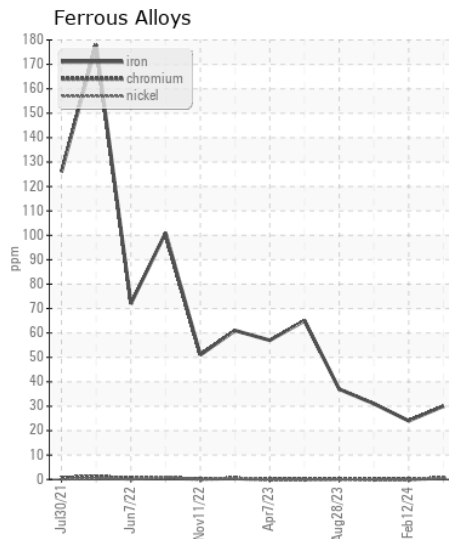
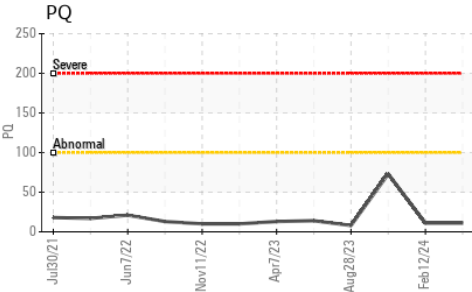
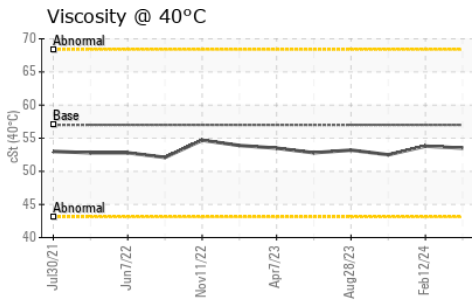
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	6	5	6
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water		WC Method	>.2	NEG	NEG	NEG
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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	1	2
Boron	ppm	ASTM D5185m	6	11	6	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	9	3	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	157	108	109
Calcium	ppm	ASTM D5185m	3570	4301	3072	3189
Phosphorus	ppm	ASTM D5185m	1290	1345	1019	1044
Zinc	ppm	ASTM D5185m	1640	1619	1202	1215
Sulfur	ppm	ASTM D5185m		4811	3488	3595
Visc @ 40°C	cSt	ASTM D445	57.0	53.5	53.8	52.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211032 **Received** : 23 Apr 2024
Lab Number : 06158551 **Tested** : 25 Apr 2024
Unique Number : 10993974 **Diagnosed** : 25 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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

Contact: DON VEST
 dvest@jamesriverequipment.com

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)

T: (703)631-8500
 F: (703)631-4715