



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 644 X 1DW644XACPFW18652
 Component
Front Differential
 Fluid
TDH FLUID SAE 75W80 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0204809	JR0194506	JR0187153
Sample Date		Client Info		25 Feb 2024	20 Dec 2023	11 Oct 2023
Machine Age	hrs	Client Info		1695	1175	740
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	NORMAL

WEAR

Bearing and/or bushing wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		17	22	21
Iron	ppm	ASTM D5185m	>500	76	75	44
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	<1
Lead	ppm	ASTM D5185m	>25	▲ 92	126	62
Copper	ppm	ASTM D5185m	>100	▲ 257	685	171
Tin	ppm	ASTM D5185m	>10	9	61	6
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

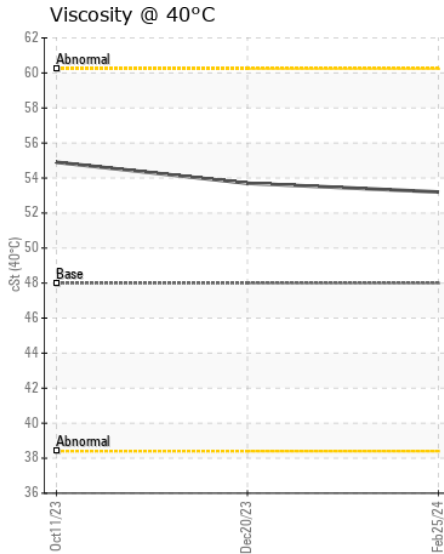
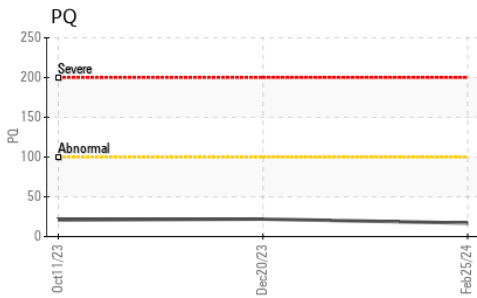
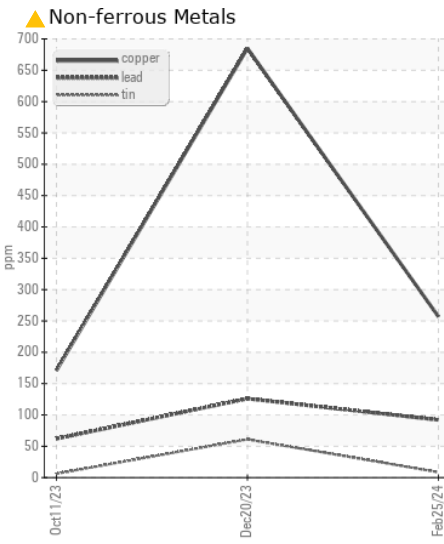
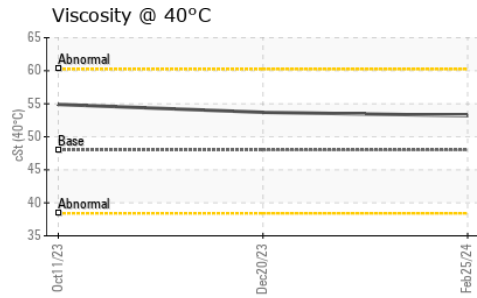
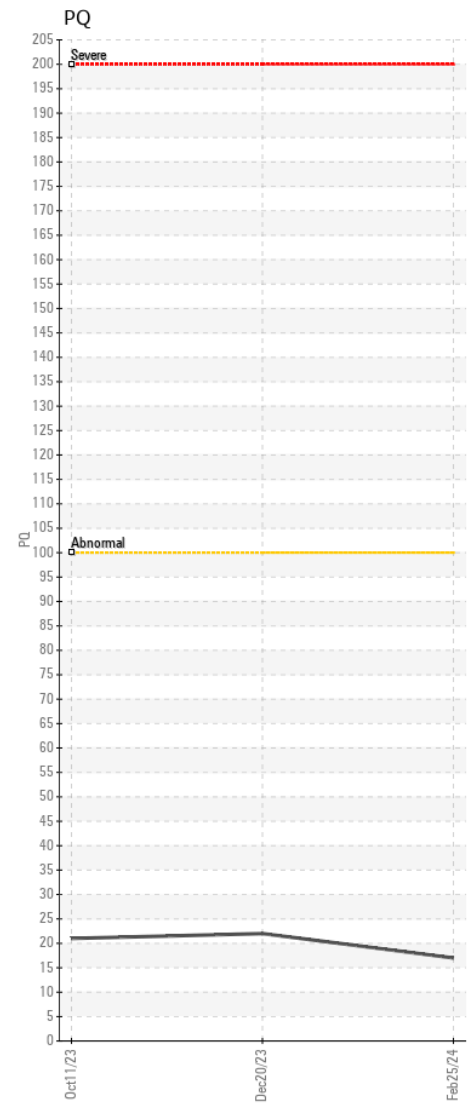
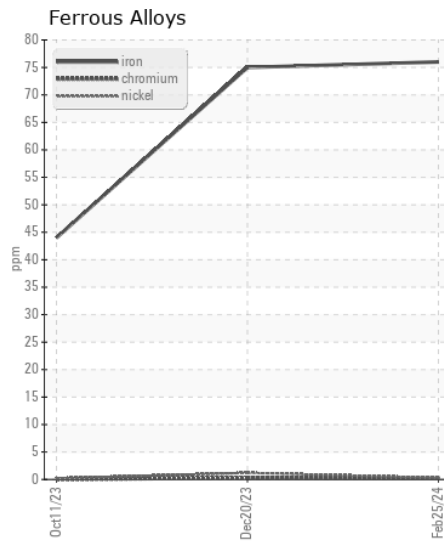
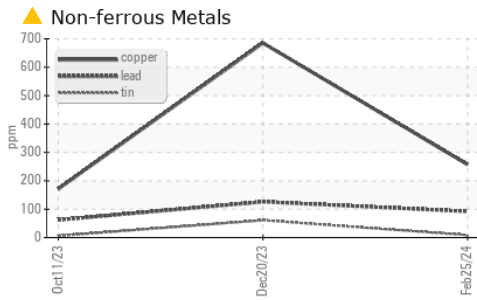
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	11	4	4
Potassium	ppm	ASTM D5185m	>20	3	3	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		9	2	3
Boron	ppm	ASTM D5185m	10	3	2	2
Barium	ppm	ASTM D5185m	10	4	0	4
Molybdenum	ppm	ASTM D5185m	10	<1	<1	0
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m	100	96	98	94
Calcium	ppm	ASTM D5185m	3500	3354	3419	3407
Phosphorus	ppm	ASTM D5185m	1150	1009	1035	991
Zinc	ppm	ASTM D5185m	1150	1211	1176	1167
Sulfur	ppm	ASTM D5185m	5000	3989	3975	3540
Visc @ 40°C	cSt	ASTM D445	48	53.2	53.7	54.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204809 **Received** : 26 Feb 2024
Lab Number : 06100369 **Tested** : 27 Feb 2024
Unique Number : 10898599 **Diagnosed** : 28 Feb 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - GREENSBORO
 411 SOUTH REGIONAL ROAD
 GREENSBORO, NC
 US 27409
 Contact: JUSTIN WILLIAMS
 justin.williams@jamesriverequipment.com
 T: (336)668-2762
 F: (336)665-9556

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)