



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[SANDY RIDGE LOGGING]

Machine Id

JOHN DEERE 748L 1DW748LBJMF710638

Component

Hydraulic System

Fluid

JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0164586	JR0161340	JR0054243
Sample Date		Client Info		07 Dec 2023	09 Aug 2023	16 Jul 2021
Machine Age	hrs	Client Info		4525	4031	582
Oil Age	hrs	Client Info		4525	0	582
Filter Age	hrs	Client Info		4525	0	582
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	6	11	<1
Chromium	ppm	ASTM D5185m	>10	2	5	0
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	2	1
Copper	ppm	ASTM D5185m	>75	3	8	2
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

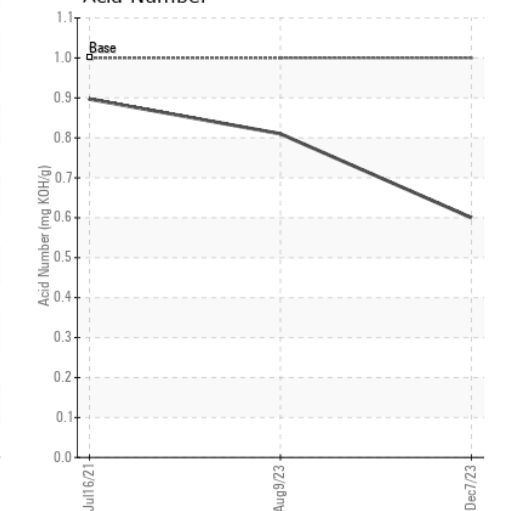
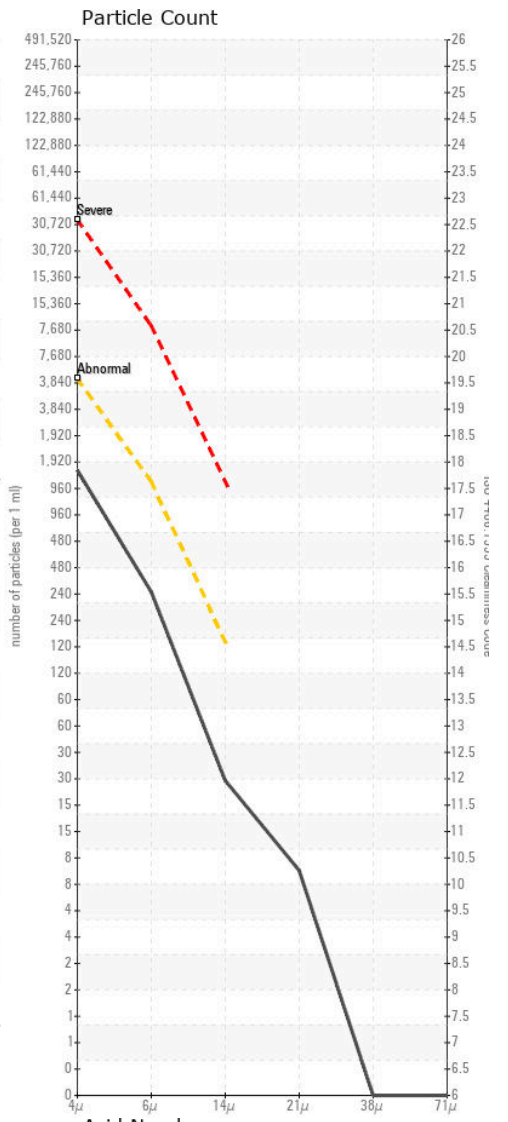
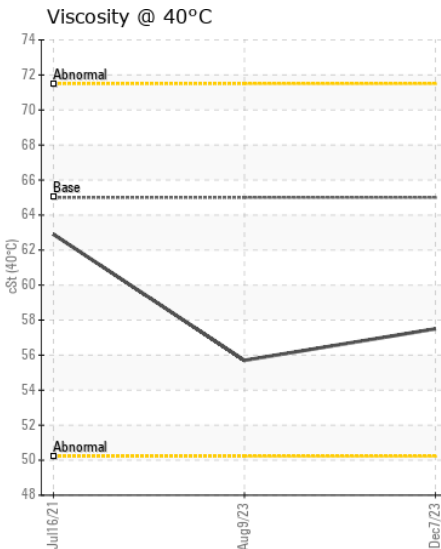
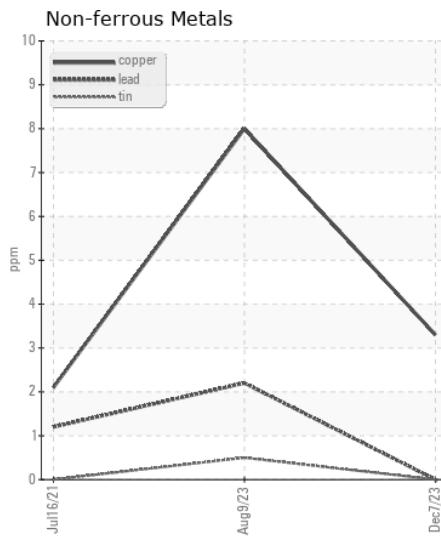
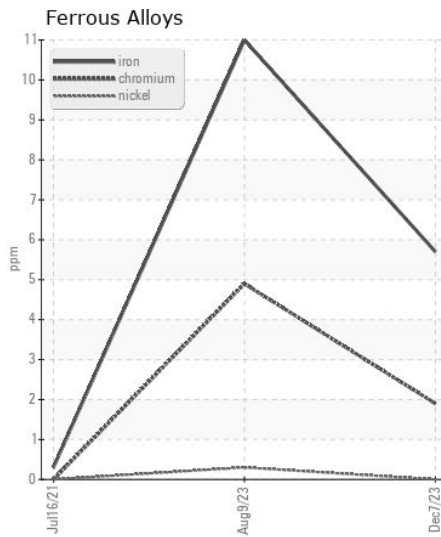
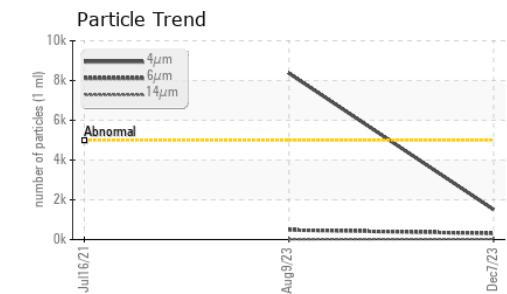
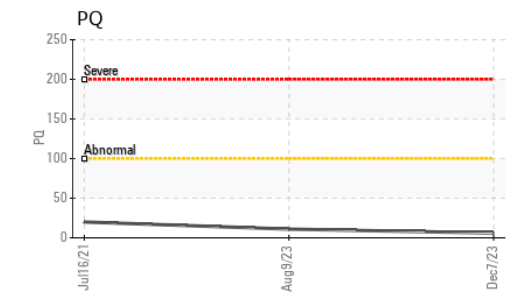
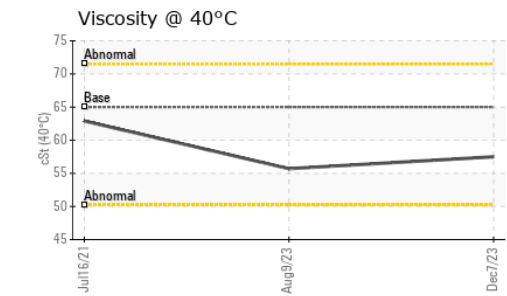
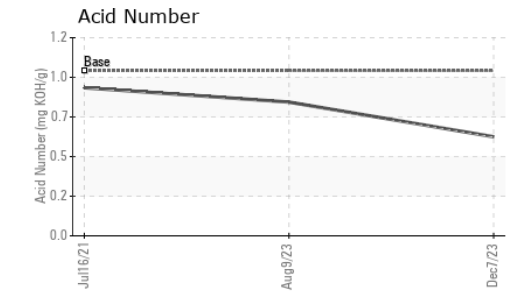
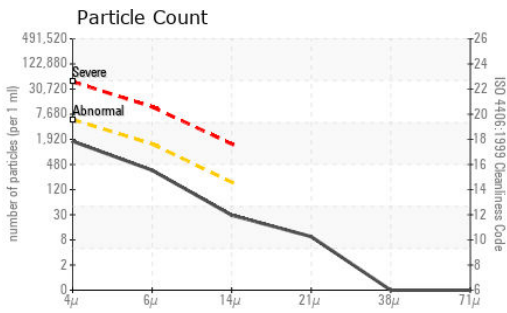
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	2	5	3
Potassium	ppm	ASTM D5185m	>20	2	6	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1510	8365	---
Particles >6µm		ASTM D7647	>1300	307	479	---
Particles >14µm		ASTM D7647	>160	26	17	---
Particles >21µm		ASTM D7647	>40	8	3	---
Particles >38µm		ASTM D7647	>10	0	1	---
Particles >71µm		ASTM D7647	>3	0	1	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/12	20/16/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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 condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	6	<1
Boron	ppm	ASTM D5185m		0	0	2
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum	ppm	ASTM D5185m		0	2	<1
Manganese	ppm	ASTM D5185m		0	2	0
Magnesium	ppm	ASTM D5185m		1	<1	4
Calcium	ppm	ASTM D5185m	87	75	63	84
Phosphorus	ppm	ASTM D5185m	727	623	568	537
Zinc	ppm	ASTM D5185m	900	832	743	754
Sulfur	ppm	ASTM D5185m	1500	1748	1812	1318
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.60	0.81	0.897
Visc @ 40°C	cSt	ASTM D445	65	57.5	55.7	62.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0164586 **Received** : 08 Dec 2023
Lab Number : 06029316 **Tested** : 11 Dec 2023
Unique Number : 10779107 **Diagnosed** : 11 Dec 2023 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529
 Contact: RALEIGH SHOP
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 T: (919)614-2260
 F: (919)779-5432

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)