



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[SANDY RIDGE]

Machine Id
JOHN DEERE 748L 1DW748LBJMF710638

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (--- 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		JR0222041	JR0164586	JR0161340
Sample Date		Client Info		15 Jul 2024	07 Dec 2023	09 Aug 2023
Machine Age	hrs	Client Info		5055	4525	4031
Oil Age	hrs	Client Info		0	4525	0
Filter Age	hrs	Client Info		0	4525	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	7	6	11
Chromium	ppm	ASTM D5185m	>10	3	2	5
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	1	<1
Lead	ppm	ASTM D5185m	>10	0	0	2
Copper	ppm	ASTM D5185m	>75	3	3	8
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

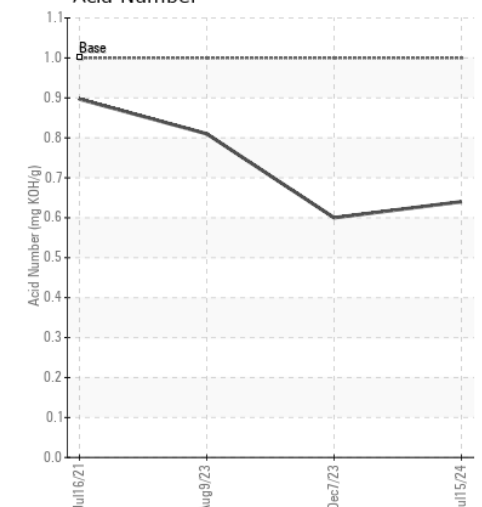
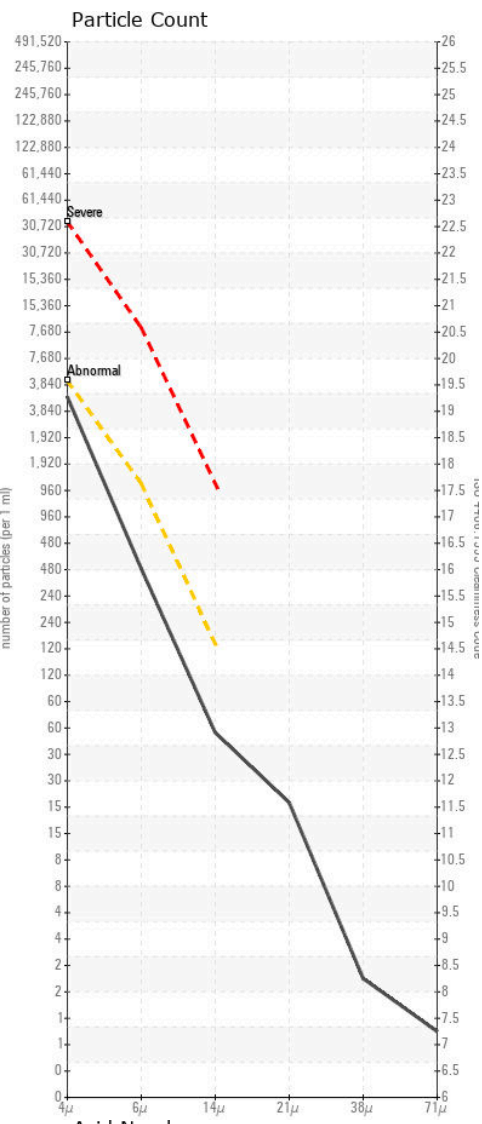
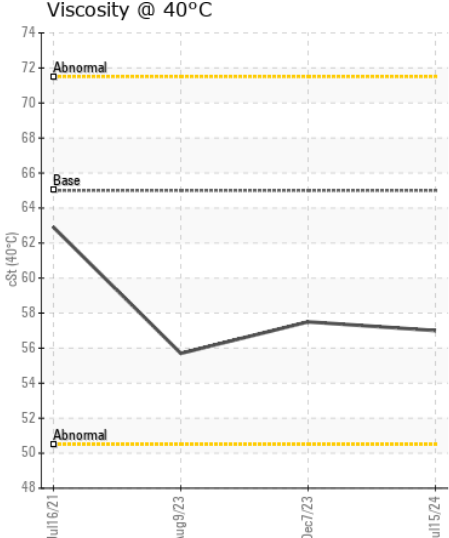
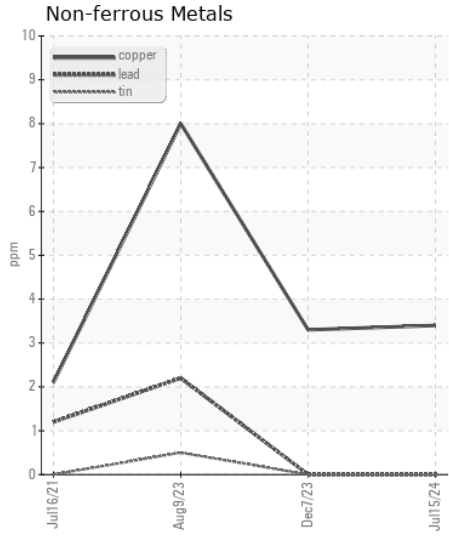
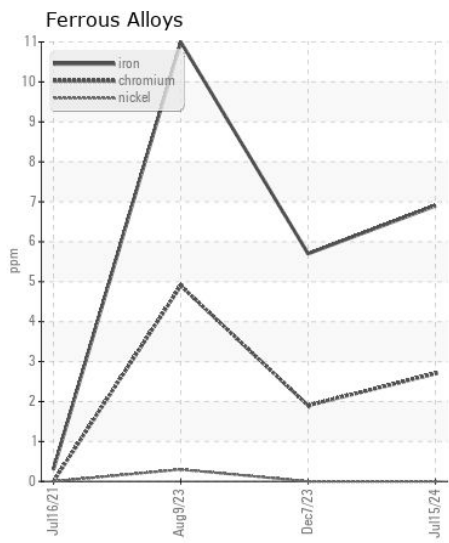
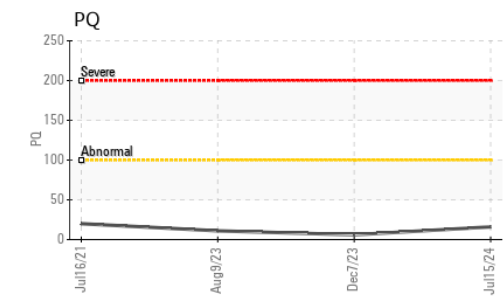
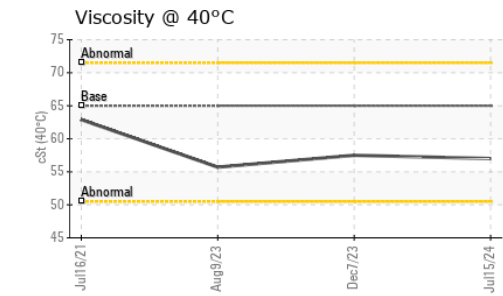
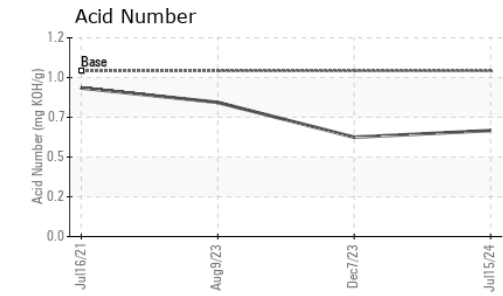
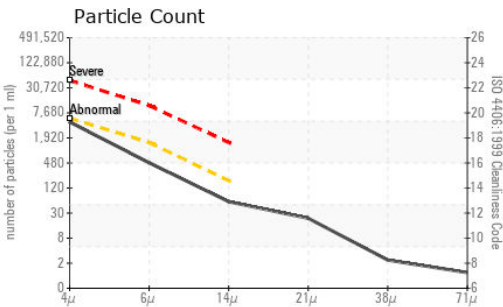
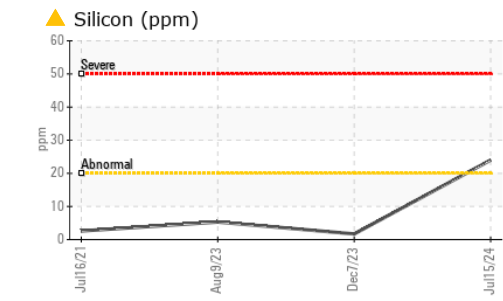
Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	▲ 24	2	5
Potassium	ppm	ASTM D5185m	>20	1	2	6
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	4050	1510	● 8365
Particles >6µm		ASTM D7647	>1300	427	307	479
Particles >14µm		ASTM D7647	>160	50	26	17
Particles >21µm		ASTM D7647	>40	20	8	3
Particles >38µm		ASTM D7647	>10	2	0	1
Particles >71µm		ASTM D7647	>3	1	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/13	18/15/12	● 20/16/11
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	>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		2	0	6
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m		0	0	2
Manganese	ppm	ASTM D5185m		0	0	2
Magnesium	ppm	ASTM D5185m		5	1	<1
Calcium	ppm	ASTM D5185m	87	89	75	63
Phosphorus	ppm	ASTM D5185m	727	613	623	568
Zinc	ppm	ASTM D5185m	900	744	832	743
Sulfur	ppm	ASTM D5185m	1500	2003	1748	1812
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.64	0.60	0.81
Visc @ 40°C	cSt	ASTM D445	65	57.0	57.5	55.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0222041 **Received** : 17 Jul 2024
Lab Number : 06239084 **Tested** : 18 Jul 2024
Unique Number : 11127918 **Diagnosed** : 19 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: PQ)

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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)