



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[FALLING OAK]

Machine Id
JOHN DEERE 748L 715610

Component
Hydraulic System

Fluid
{not provided} (--- QTS)

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		JR0222044	JR0209533	JR0164607
Sample Date		Client Info		16 Jul 2024	19 Mar 2024	06 Dec 2023
Machine Age	hrs	Client Info		3801	0	2523
Oil Age	hrs	Client Info		0	0	2523
Filter Age	hrs	Client Info		0	0	2523
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		22	19	6
Iron	ppm	ASTM D5185m	>20	21	11	7
Chromium	ppm	ASTM D5185m	>10	4	4	2
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	<1	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	1	2	1
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

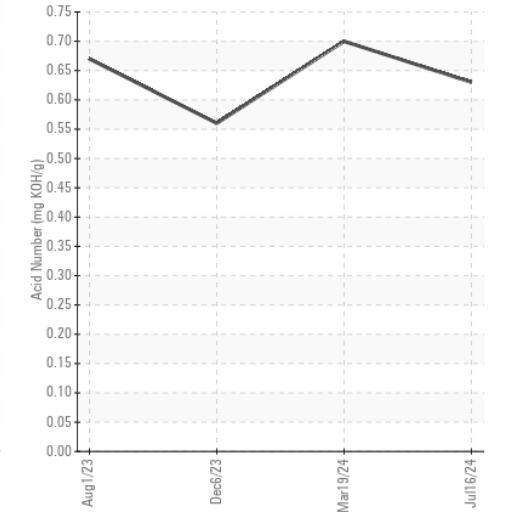
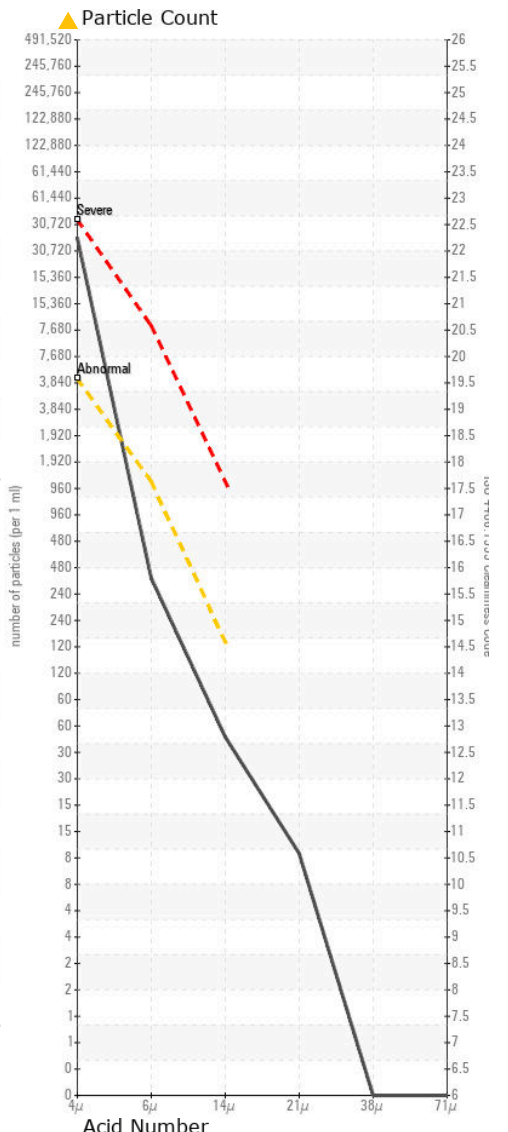
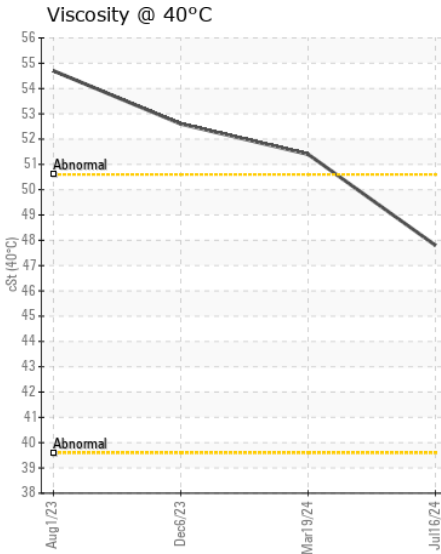
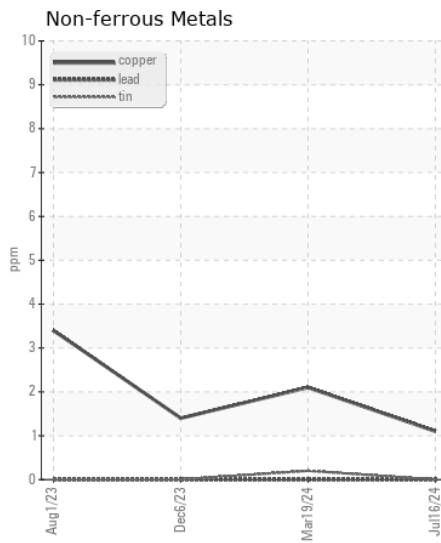
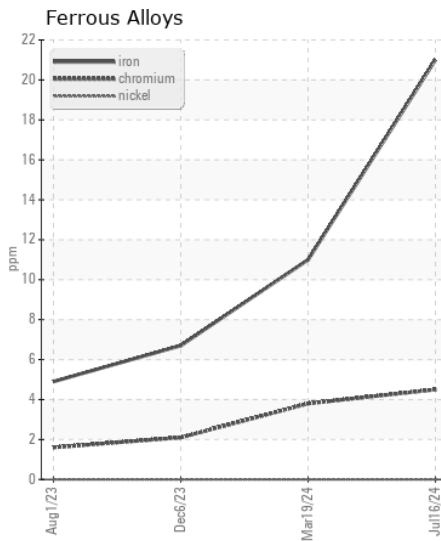
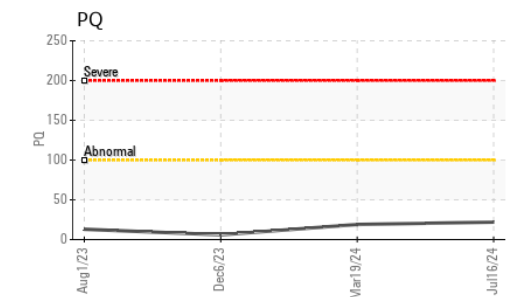
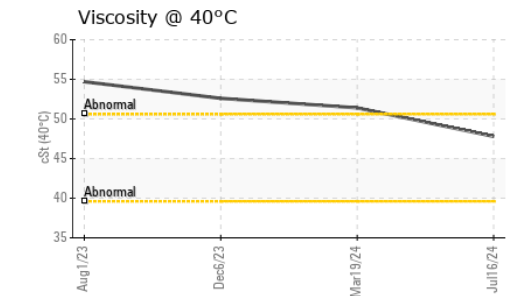
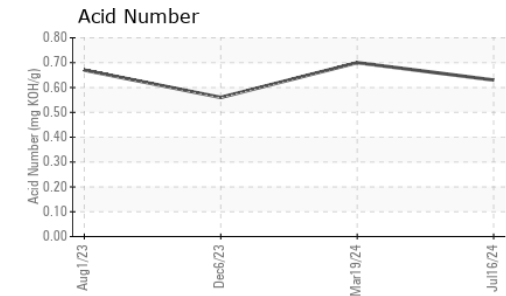
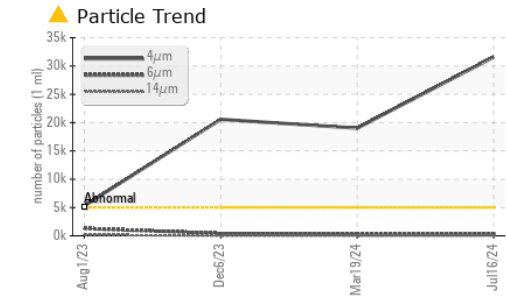
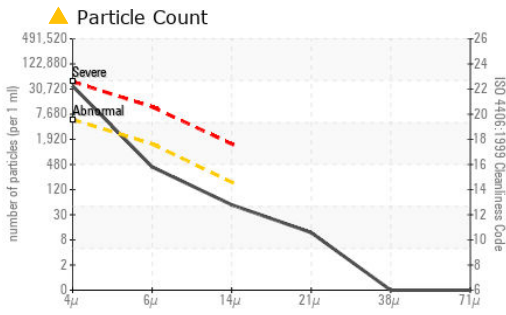
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	17	15	13
Potassium	ppm	ASTM D5185m	>20	2	1	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 31564	▲ 19018	▲ 20568
Particles >6µm		ASTM D7647	>1300	368	244	397
Particles >14µm		ASTM D7647	>160	46	19	31
Particles >21µm		ASTM D7647	>40	10	4	8
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/16/13	▲ 21/15/11	▲ 22/16/12
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	2	2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	4
Molybdenum	ppm	ASTM D5185m		0	1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		2	2	3
Calcium	ppm	ASTM D5185m		100	97	92
Phosphorus	ppm	ASTM D5185m		550	563	536
Zinc	ppm	ASTM D5185m		697	756	706
Sulfur	ppm	ASTM D5185m		1809	1849	1585
Acid Number (AN)	mg KOH/g	ASTM D8045		0.63	0.70	0.56
Visc @ 40°C	cSt	ASTM D445		47.8	51.4	52.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0222044 **Received** : 19 Jul 2024
Lab Number : 06241587 **Tested** : 22 Jul 2024
Unique Number : 11130421 **Diagnosed** : 22 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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 US 27529
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 T: (919)614-2260
 F: (919)779-5432

Certificate L2367
 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)