



PROBLEM SUMMARY

Sample Rating Trend

ISO



Machine Id
JOHN DEERE 624K 692694
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Particles >6µm	ASTM D7647	>5000	▲ 13987	---	---
Particles >14µm	ASTM D7647	>640	▲ 885	---	---
Oil Cleanliness	ISO 4406 (c)	>23/19/16	▲ 23/21/17	---	---

Customer Id: MURCAM
 Sample No.: MT0005773
 Lab Number: 05931460
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
JOHN DEERE 624K 692694
 Component
Hydraulic System
 Fluid
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DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	MT0005773	---	---
Sample Date	Client Info	14 Aug 2023	---	---
Machine Age	hrs	Client Info	5087	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	>50	5	---
Iron	ppm	ASTM D5185m	>71	11
Chromium	ppm	ASTM D5185m	>11	8
Nickel	ppm	ASTM D5185m	>6	0
Titanium	ppm	ASTM D5185m		0
Silver	ppm	ASTM D5185m		<1
Aluminum	ppm	ASTM D5185m	>11	2
Lead	ppm	ASTM D5185m	>13	0
Copper	ppm	ASTM D5185m	>21	<1
Tin	ppm	ASTM D5185m	>5	0
Vanadium	ppm	ASTM D5185m		0
Cadmium	ppm	ASTM D5185m		0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0
Barium	ppm	ASTM D5185m		0
Molybdenum	ppm	ASTM D5185m		0
Manganese	ppm	ASTM D5185m		<1
Magnesium	ppm	ASTM D5185m		<1
Calcium	ppm	ASTM D5185m	87	106
Phosphorus	ppm	ASTM D5185m	727	664
Zinc	ppm	ASTM D5185m	900	895
Sulfur	ppm	ASTM D5185m	1500	2057

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>24	4
Sodium	ppm	ASTM D5185m	>21	3
Potassium	ppm	ASTM D5185m	>20	2

FLUID CLEANLINESS

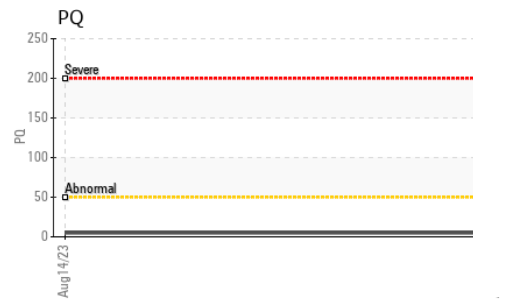
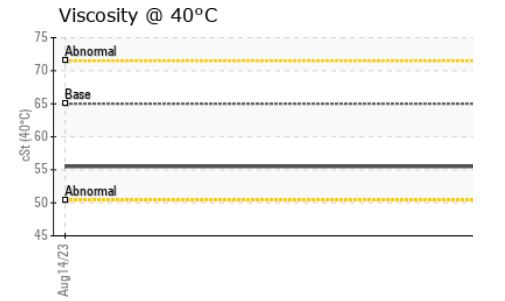
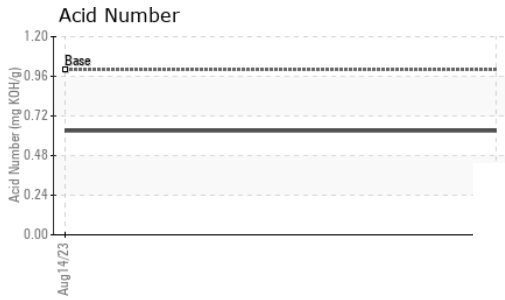
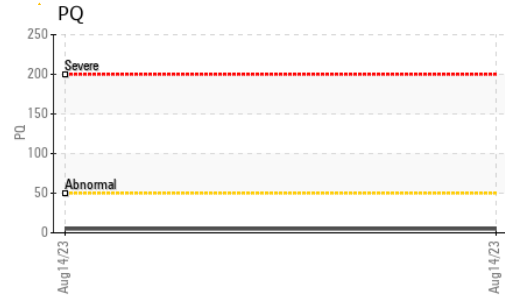
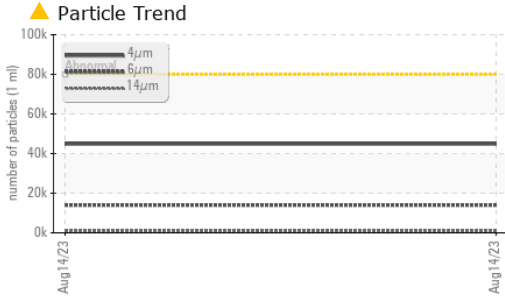
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>80000	44879	---
Particles >6µm	ASTM D7647	>5000	▲ 13987	---
Particles >14µm	ASTM D7647	>640	▲ 885	---
Particles >21µm	ASTM D7647	>160	179	---
Particles >38µm	ASTM D7647	>40	2	---
Particles >71µm	ASTM D7647	>10	0	---
Oil Cleanliness	ISO 4406 (c)	>23/19/16	▲ 23/21/17	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.63



OIL ANALYSIS REPORT



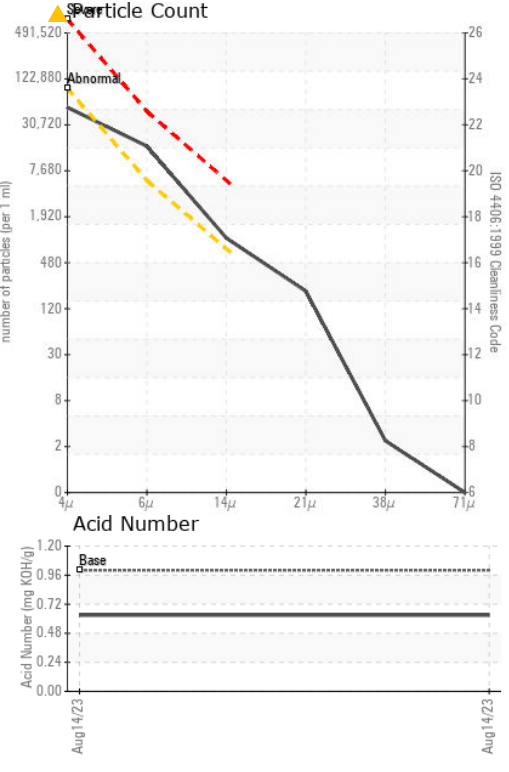
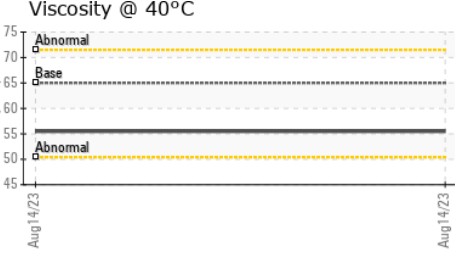
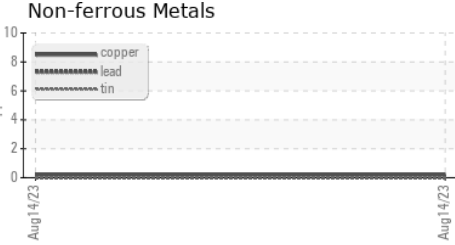
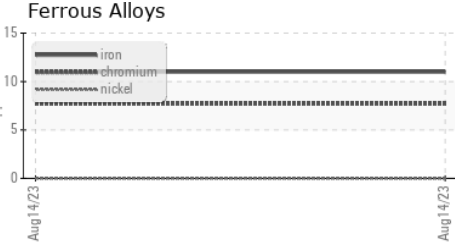
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 65	55.5	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : MT0005773 Received : 22 Aug 2023
 Lab Number : 05931460 Diagnosed : 23 Aug 2023
 Unique Number : 10616731 Diagnostician : Wes Davis
 Test Package : CONST (Additional Tests: PQ)

MURPHY TRACTOR - CAMBRIDGE
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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)