



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 544K 1DW544KZVJF690193
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0223100	JR0174307	JR0158211
Sample Date		Client Info		24 Jun 2024	14 Aug 2023	04 Jun 2023
Machine Age	hrs	Client Info		3957	3563	3399
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	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	20	17	16
Iron	ppm	ASTM D5185m	>71	3	11	9
Chromium	ppm	ASTM D5185m	>11	7	10	8
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>11	7	2	2
Lead	ppm	ASTM D5185m	>13	0	<1	0
Copper	ppm	ASTM D5185m	>21	9	4	4
Tin	ppm	ASTM D5185m	>5	0	0	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

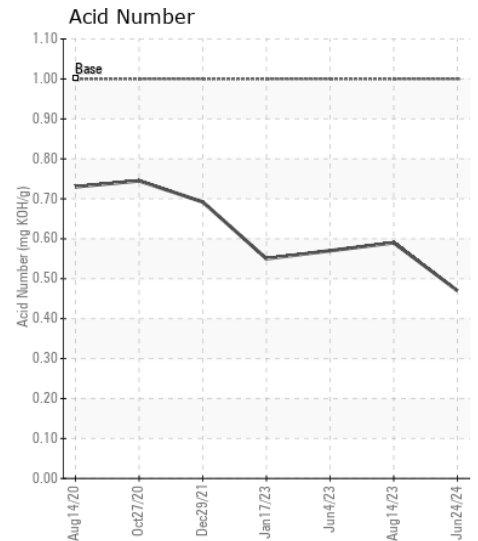
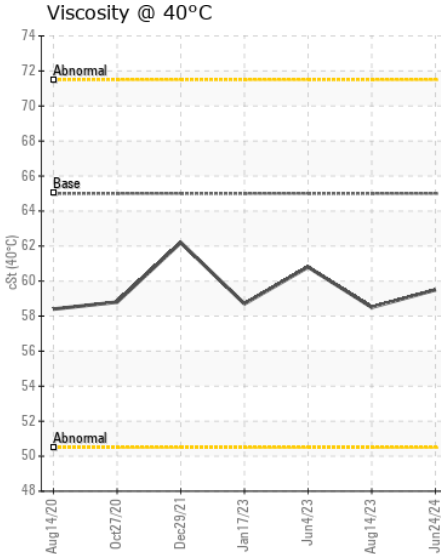
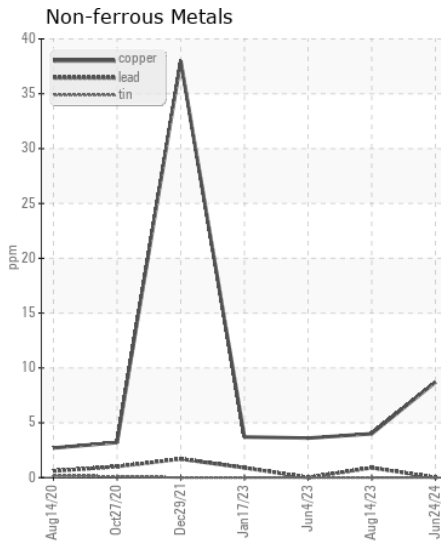
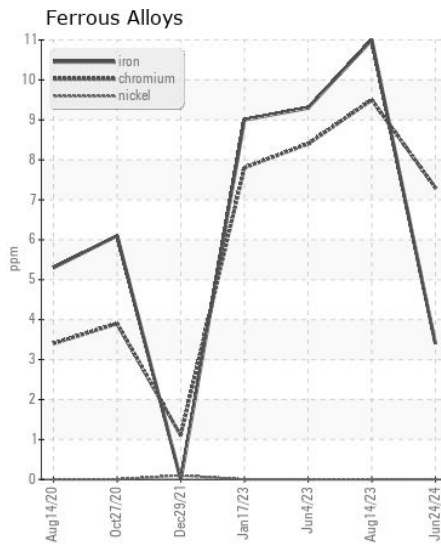
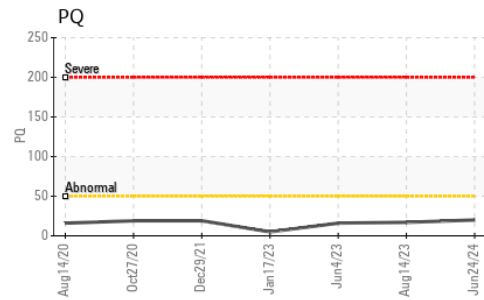
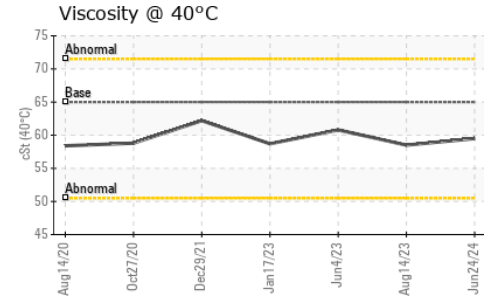
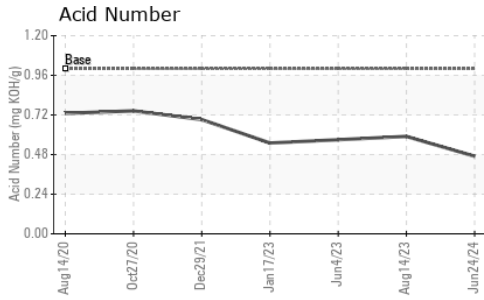
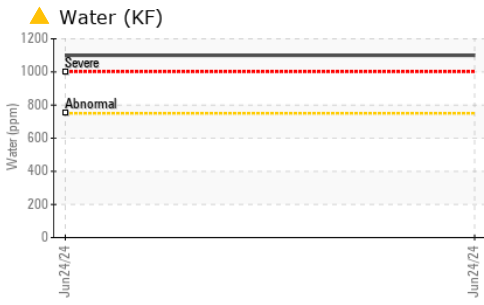
There is a light concentration of water present in the oil. There is a moderate amount of visible silt present in the sample.

Silicon	ppm	ASTM D5185m	>24	15	6	5
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water	%	ASTM D6304	>0.075	▲ 0.110	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 1100	---	---
Particles >4µm		ASTM D7647	>80000	---	5058	8075
Particles >6µm		ASTM D7647	>5000	---	263	304
Particles >14µm		ASTM D7647	>640	---	19	22
Particles >21µm		ASTM D7647	>160	---	6	5
Particles >38µm		ASTM D7647	>40	---	0	0
Particles >71µm		ASTM D7647	>10	---	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	---	20/15/11	20/15/12
Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.075	▲ 0.2%	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	>21	4	0	3
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	3	<1
Calcium	ppm	ASTM D5185m	87	188	96	97
Phosphorus	ppm	ASTM D5185m	727	548	551	539
Zinc	ppm	ASTM D5185m	900	612	761	765
Sulfur	ppm	ASTM D5185m	1500	1671	1503	1689
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.47	0.59	0.57
Visc @ 40°C	cSt	ASTM D445	65	59.5	58.5	60.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0223100 **Received** : 25 Jun 2024
Lab Number : 06219585 **Tested** : 26 Jun 2024
Unique Number : 11097782 **Diagnosed** : 26 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, 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)