



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 744K DW744KX625256

Component
Hydraulic System

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217650	JR0199517	JR0184181
Sample Date		Client Info		17 May 2024	09 Feb 2024	23 Aug 2023
Machine Age	hrs	Client Info		19079	18641	18081
Oil Age	hrs	Client Info		19079	18641	18081
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184	>50	21	21	17
Iron	ppm	ASTM D5185m	>71	16	31	25
Chromium	ppm	ASTM D5185m	>11	3	7	6
Nickel	ppm	ASTM D5185m	>6	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	1	<1
Silver	ppm	ASTM D5185m		<1	0	1
Aluminum	ppm	ASTM D5185m	>11	5	9	6
Lead	ppm	ASTM D5185m	>13	<1	1	<1
Copper	ppm	ASTM D5185m	>21	5	12	10
Tin	ppm	ASTM D5185m	>5	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

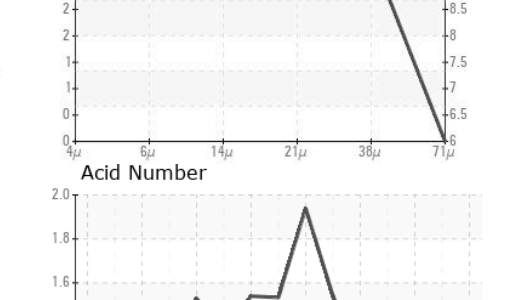
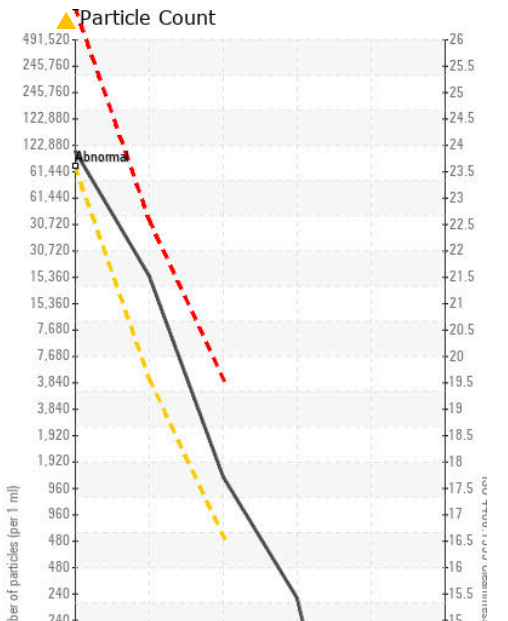
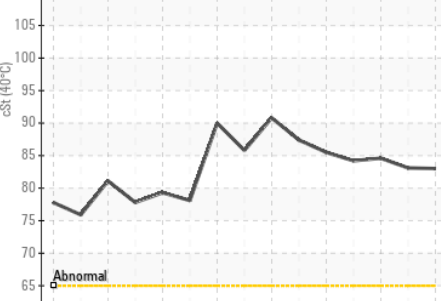
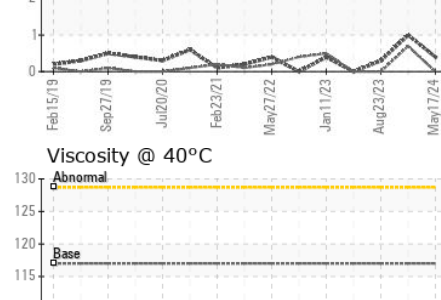
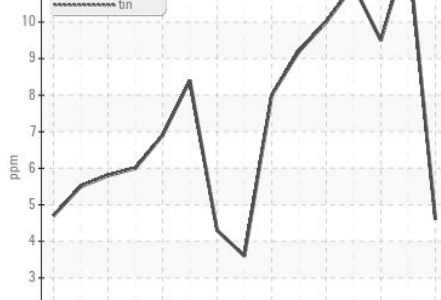
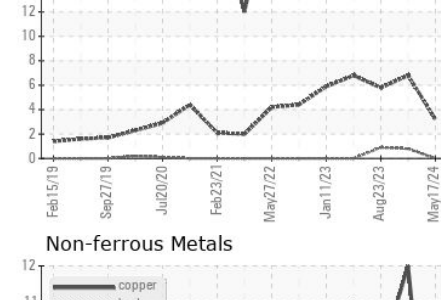
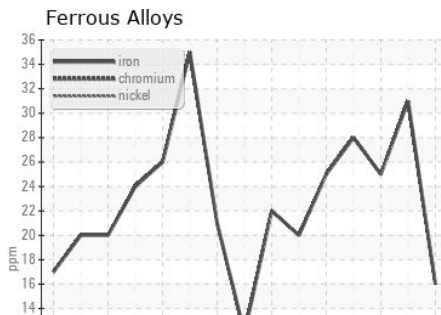
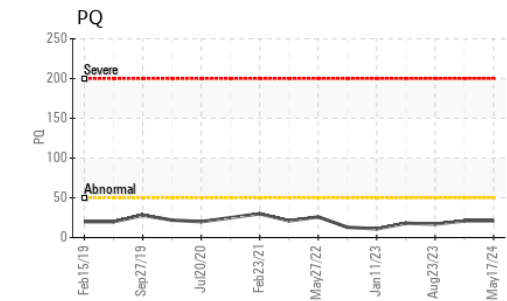
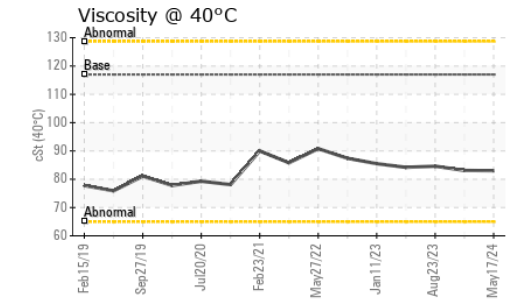
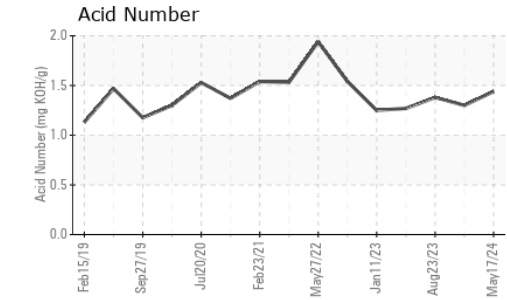
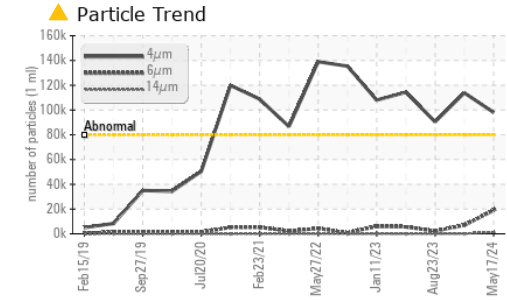
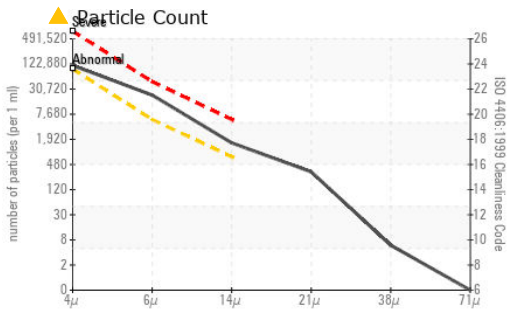
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>24	15	▲ 24	19
Potassium	ppm	ASTM D5185m	>20	<1	4	4
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	▲ 97995	● 113844	● 90407
Particles >6µm		ASTM D7647	>5000	▲ 19140	● 6945	2196
Particles >14µm		ASTM D7647	>640	▲ 1383	135	74
Particles >21µm		ASTM D7647	>160	▲ 282	36	19
Particles >38µm		ASTM D7647	>40	5	2	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	▲ 24/21/18	● 24/20/14	● 24/18/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
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	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	2	0	3
Boron	ppm	ASTM D5185m		86	190	204
Barium	ppm	ASTM D5185m		0	14	0
Molybdenum	ppm	ASTM D5185m		82	173	168
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		560	813	806
Calcium	ppm	ASTM D5185m		1724	1368	1354
Phosphorus	ppm	ASTM D5185m		989	1017	972
Zinc	ppm	ASTM D5185m		1156	1132	1111
Sulfur	ppm	ASTM D5185m		3683	3974	3269
Acid Number (AN)	mg KOH/g	ASTM D8045		1.44	1.30	1.38
Visc @ 40°C	cSt	ASTM D445	117	83.0	83.1	84.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217650 **Received** : 23 May 2024
Lab Number : 06189712 **Tested** : 25 May 2024
Unique Number : 11046464 **Diagnosed** : 30 May 2024 - Jonathan Hester
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)