



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 624K 624K-3 (S/N THCE645113)
Component
Hydraulic System
Fluid
MOBIL MOBILTRANS AST 30 (--- 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		TLY0002437	TLY0001977	TLY0001414
Sample Date		Client Info		22 May 2024	20 Oct 2023	10 May 2023
Machine Age	hrs	Client Info		11702	11181	10553
Oil Age	hrs	Client Info		11181	11181	553
Filter Age	hrs	Client Info		11181	11181	553
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>71	22	17	15
Chromium	ppm	ASTM D5185m	>11	10	8	8
Nickel	ppm	ASTM D5185m	>6	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>11	8	7	8
Lead	ppm	ASTM D5185m	>13	0	<1	0
Copper	ppm	ASTM D5185m	>21	5	5	2
Tin	ppm	ASTM D5185m	>5	0	0	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

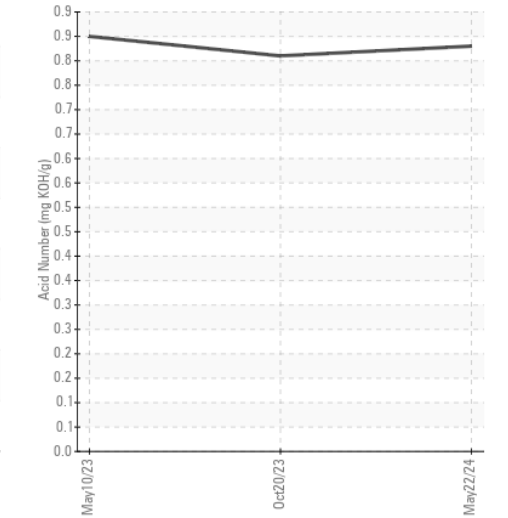
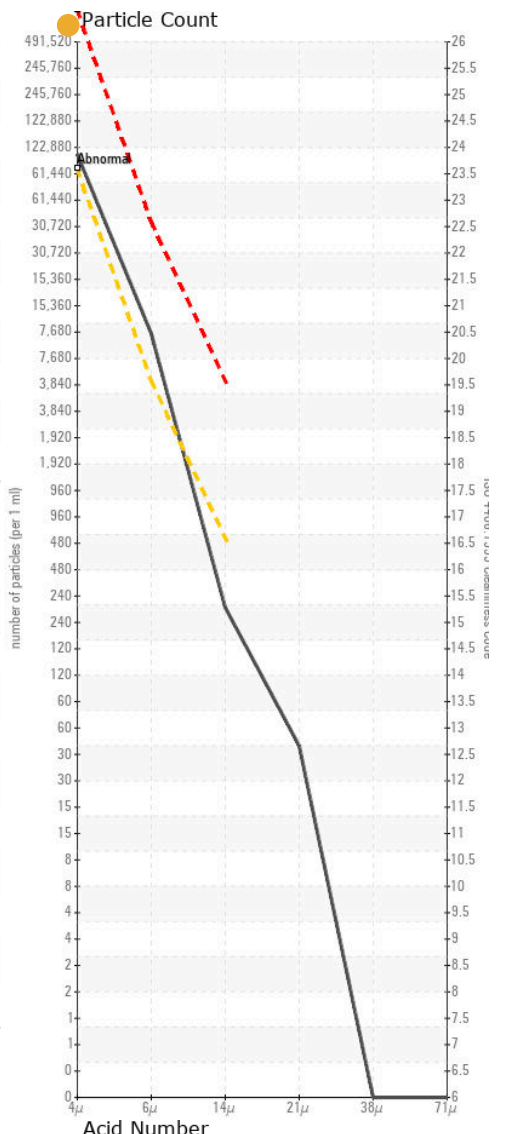
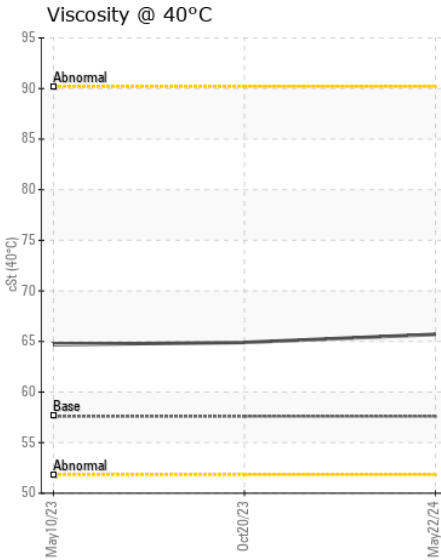
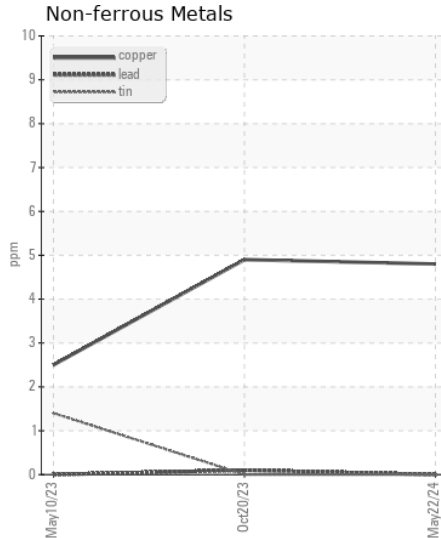
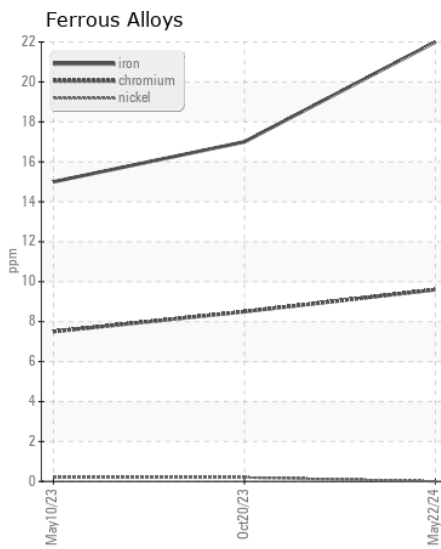
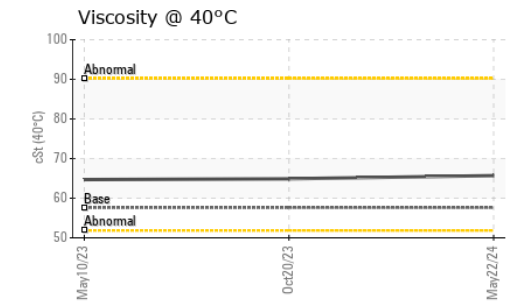
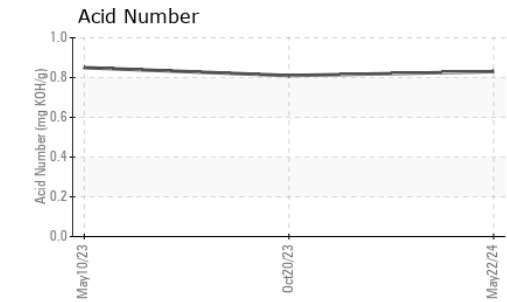
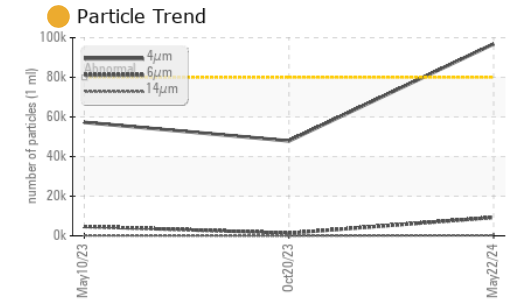
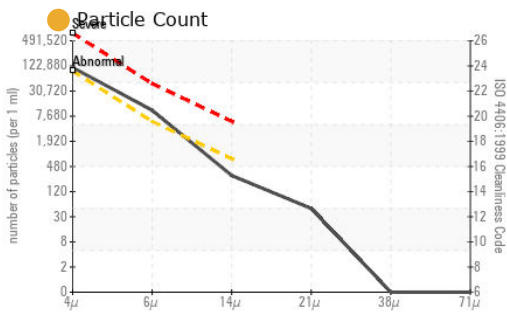
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>24	16	12	11
Potassium	ppm	ASTM D5185m	>20	<1	3	2
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	96851	47897	57290
Particles >6µm		ASTM D7647	>5000	9265	1362	4691
Particles >14µm		ASTM D7647	>640	257	75	206
Particles >21µm		ASTM D7647	>160	42	19	18
Particles >38µm		ASTM D7647	>40	0	1	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	24/20/15	23/18/13	23/19/15
Silt	scalar	*Visual	NONE	NONE	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	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>21	8	5	7
Boron	ppm	ASTM D5185m		80	83	73
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		50	51	50
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		451	442	476
Calcium	ppm	ASTM D5185m		2178	1821	1939
Phosphorus	ppm	ASTM D5185m		985	890	924
Zinc	ppm	ASTM D5185m		1106	1054	1145
Sulfur	ppm	ASTM D5185m		4011	3474	4402
Acid Number (AN)	mg KOH/g	ASTM D8045		0.83	0.81	0.85
Visc @ 40°C	cSt	ASTM D445	57.6	65.7	64.9	64.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TLY0002437
Lab Number : 06193884
Unique Number : 11056007
Test Package : CONST
Received : 29 May 2024
Tested : 30 May 2024
Diagnosed : 31 May 2024 - Angela Borella

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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)