



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 117
 Component
Hydraulic System
 Fluid
MOBIL MOBILFLUID 424 (--- QTS)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0172218	JR0172457	JR0117804
Sample Date		Client Info		17 May 2024	22 Sep 2023	07 Dec 2022
Machine Age	hrs	Client Info		7263	5833	3768
Oil Age	hrs	Client Info		3263	500	3768
Filter Age	hrs	Client Info		3263	500	3768
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				ABNORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		15	11	12
Iron	ppm	ASTM D5185m	>20	7	5	▲ 39
Chromium	ppm	ASTM D5185m	>10	8	8	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	1	0	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	▲ 13
Copper	ppm	ASTM D5185m	>75	4	3	▲ 86
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

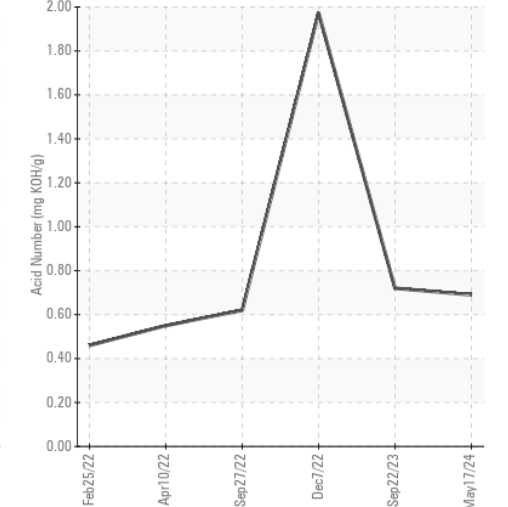
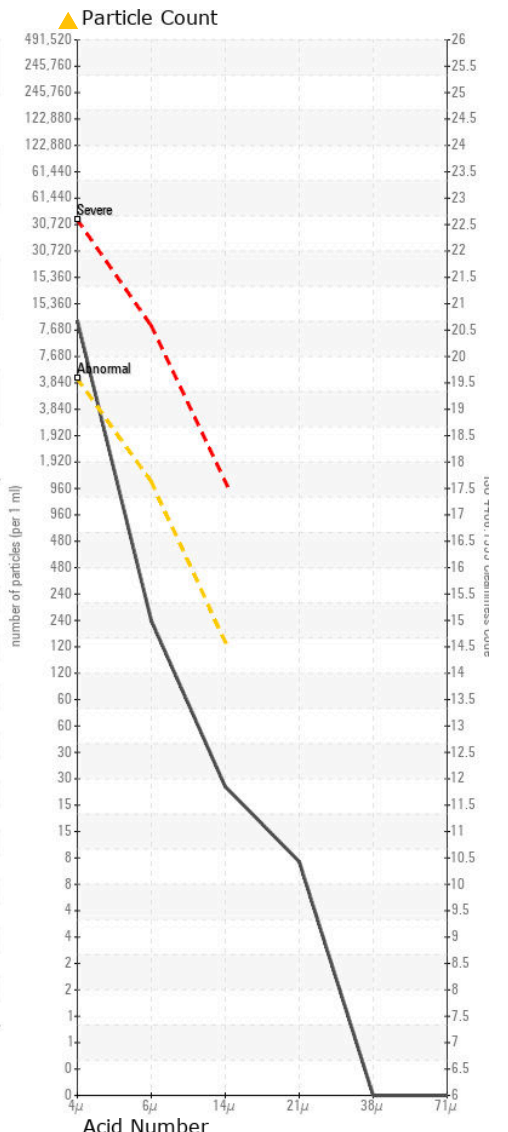
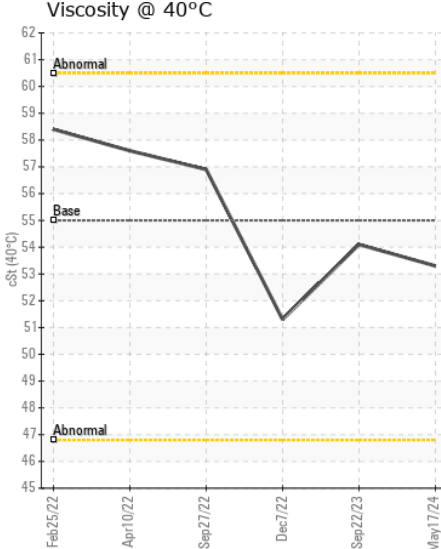
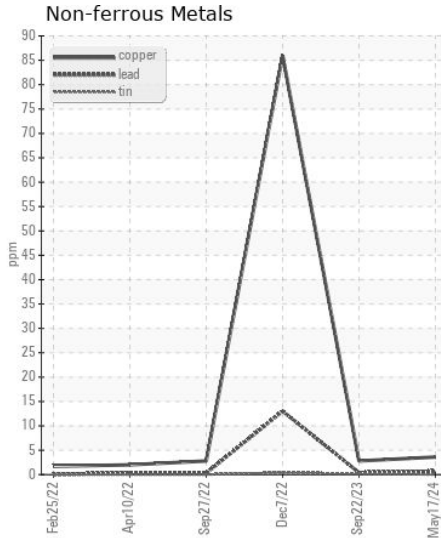
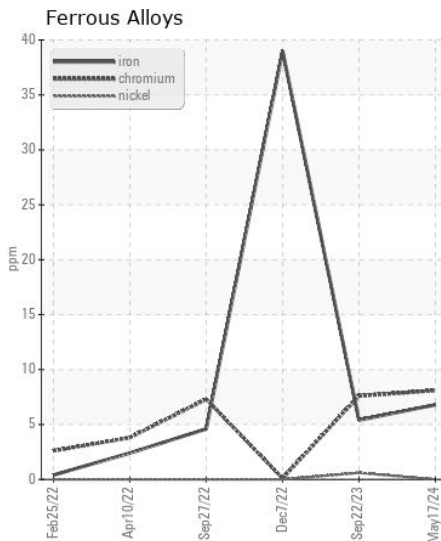
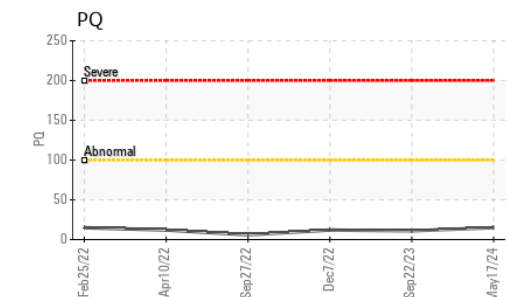
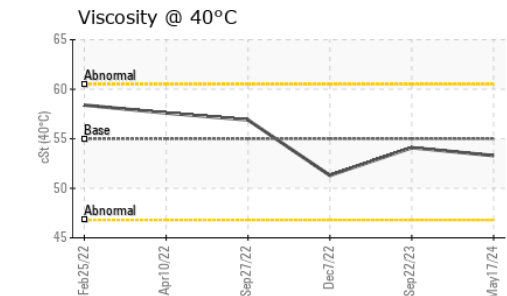
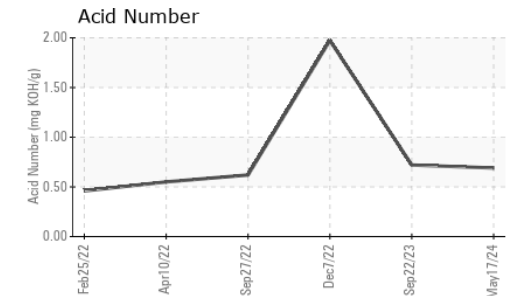
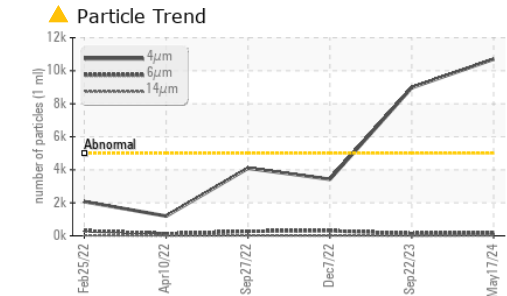
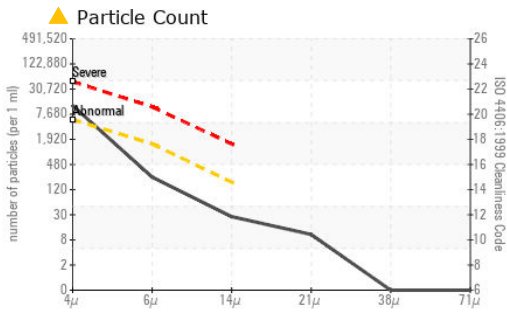
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	9	8	3
Potassium	ppm	ASTM D5185m	>20	0	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 10703	● 8974	3423
Particles >6µm		ASTM D7647	>1300	211	140	301
Particles >14µm		ASTM D7647	>160	24	10	16
Particles >21µm		ASTM D7647	>40	9	4	5
Particles >38µm		ASTM D7647	>10	0	1	1
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/15/12	● 20/14/10	19/15/11
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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		4	2	0
Boron	ppm	ASTM D5185m		74	64	2
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		3	4	<1
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m		54	51	85
Calcium	ppm	ASTM D5185m		2480	2038	3258
Phosphorus	ppm	ASTM D5185m		986	926	965
Zinc	ppm	ASTM D5185m		1200	1183	1158
Sulfur	ppm	ASTM D5185m		5952	5587	3928
Acid Number (AN)	mg KOH/g	ASTM D8045		0.69	0.72	1.973
Visc @ 40°C	cSt	ASTM D445	55	53.3	54.1	51.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0172218 **Received** : 31 May 2024
Lab Number : 06196593 **Tested** : 03 Jun 2024
Unique Number : 11058716 **Diagnosed** : 03 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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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)