



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 908M C237144 (S/N CAT0908MLH8801142)
 Component
Hydraulic System
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218692	JR0191341	JR0168273
Sample Date		Client Info		04 Jun 2024	07 Dec 2023	17 May 2023
Machine Age	hrs	Client Info		5333	4885	4383
Oil Age	hrs	Client Info		448	0	0
Filter Age	hrs	Client Info		448	502	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Not Changed
Sample Status				ABNORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		16	17	16
Iron	ppm	ASTM D5185m	>20	3	11	12
Chromium	ppm	ASTM D5185m	>10	6	8	8
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	2	3
Lead	ppm	ASTM D5185m	>10	1	2	2
Copper	ppm	ASTM D5185m	>75	4	8	7
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

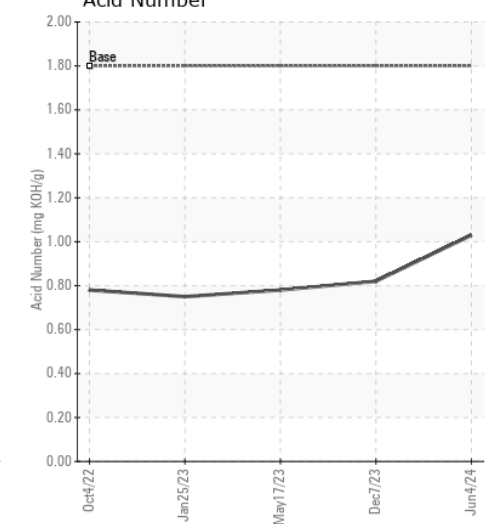
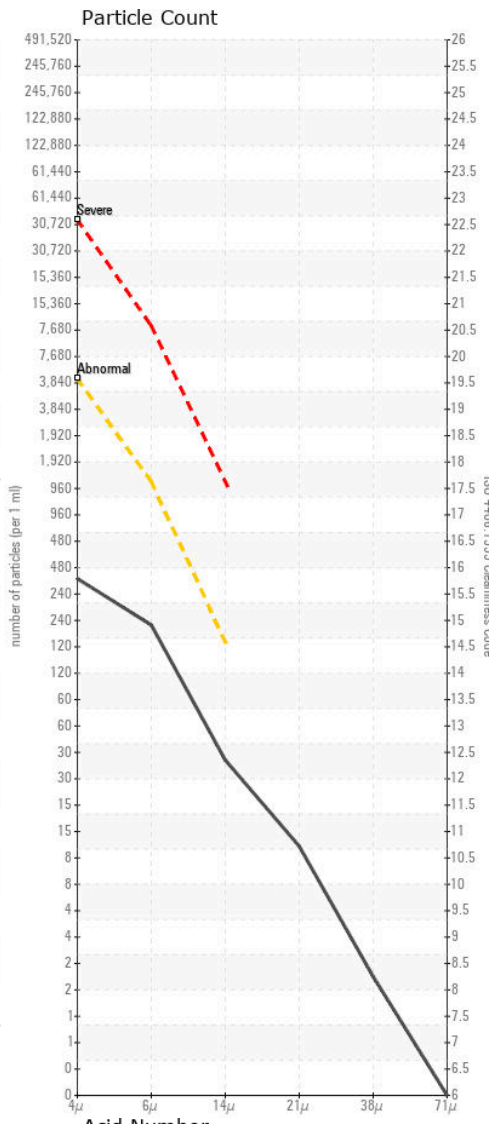
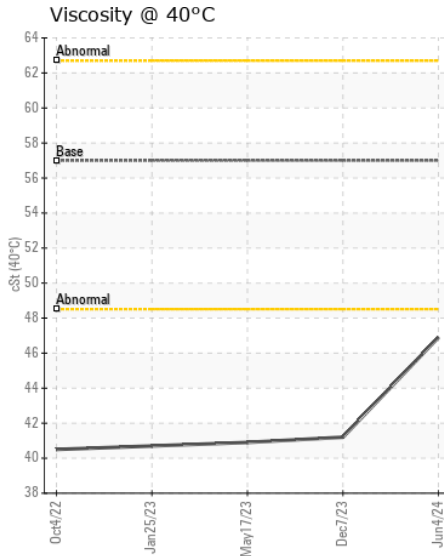
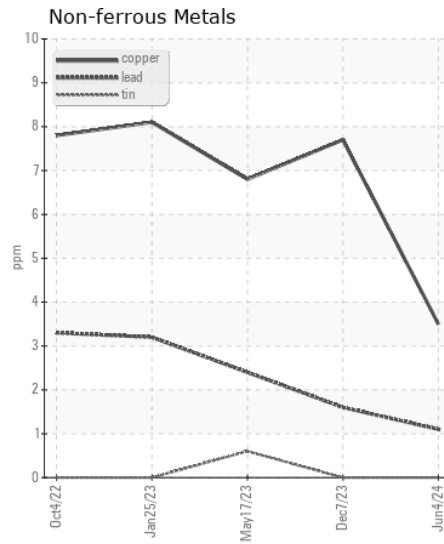
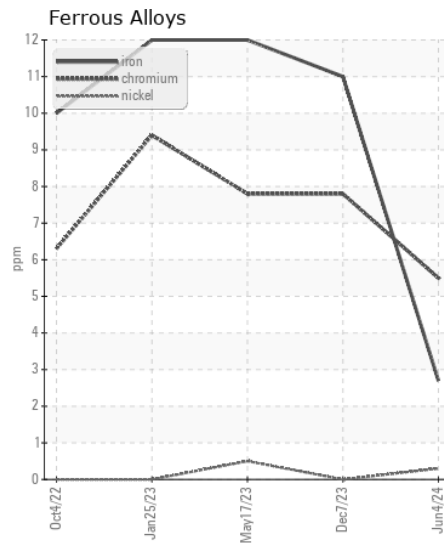
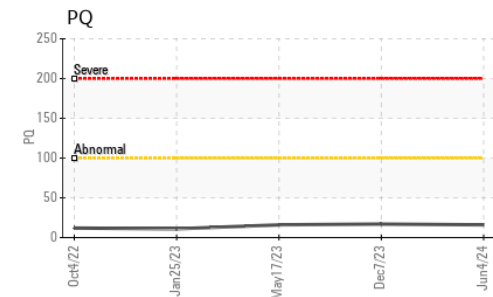
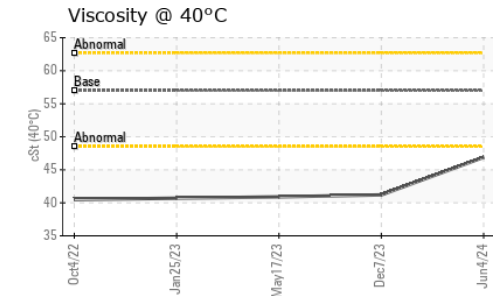
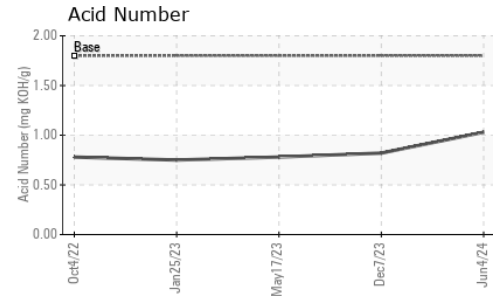
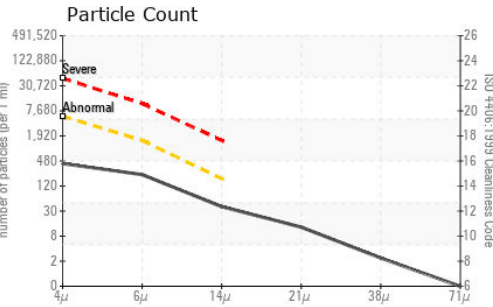
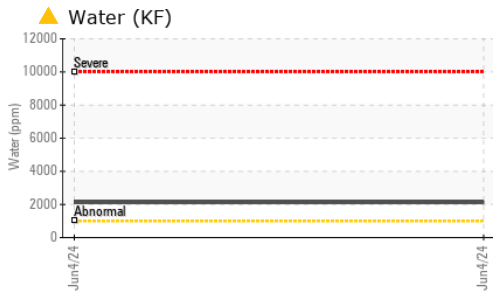
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	3	3	3
Potassium	ppm	ASTM D5185m	>20	2	0	2
Water	%	ASTM D6304	>0.1	▲ 0.212	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 2120	---	---
Particles >4µm		ASTM D7647	>5000	365	● 9067	▲ 8967
Particles >6µm		ASTM D7647	>1300	199	751	▲ 2738
Particles >14µm		ASTM D7647	>160	34	62	▲ 372
Particles >21µm		ASTM D7647	>40	11	20	▲ 80
Particles >38µm		ASTM D7647	>10	2	1	5
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/12	● 20/17/13	▲ 20/19/16
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	0.2%	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		4	1	2
Boron	ppm	ASTM D5185m	6	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	145	63	11	10
Calcium	ppm	ASTM D5185m	3570	2209	380	334
Phosphorus	ppm	ASTM D5185m	1290	831	658	705
Zinc	ppm	ASTM D5185m	1640	1016	866	950
Sulfur	ppm	ASTM D5185m		2910	1794	2287
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.03	0.82	0.78
Visc @ 40°C	cSt	ASTM D445	57.0	46.9	41.2	40.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218692 **Received** : 14 Jun 2024
Lab Number : 06209965 **Tested** : 21 Jun 2024
Unique Number : 11082829 **Diagnosed** : 21 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KF, PQ)

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)

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