WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

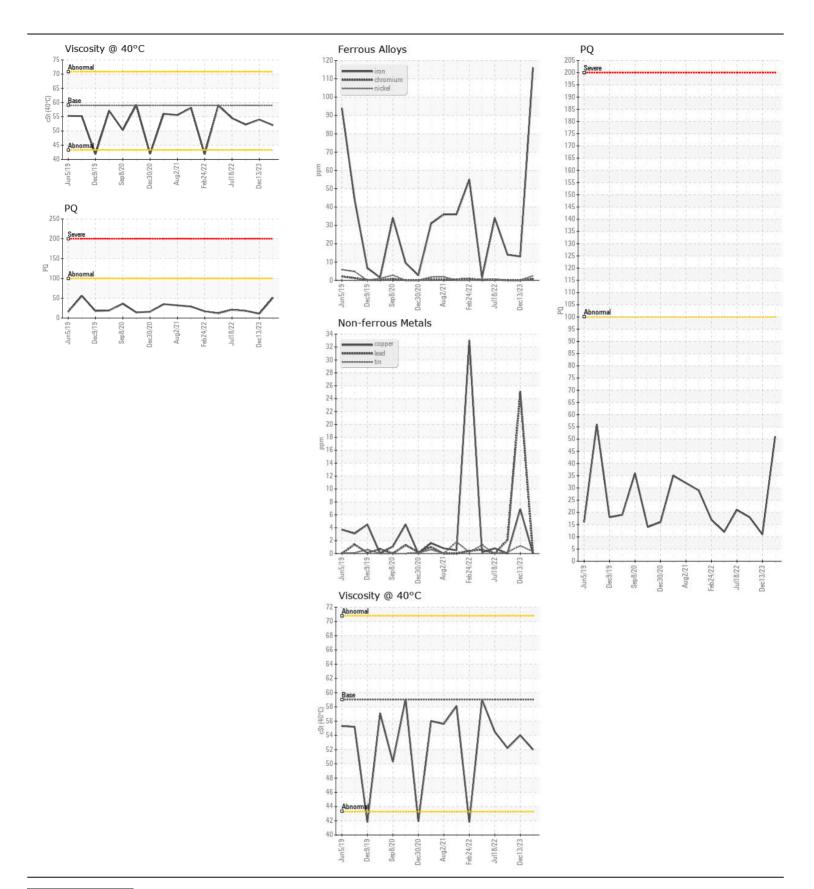
[W66345]

CATERPILLAR 938M CAT0938MJJ3R04964

Front Differential

JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (10 GAL)

JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (10 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0206709	JR0192649	JR0161833
Resample at the next service interval to monitor. (Customer Sample Comment: W66345)	Sample Date		Client Info		23 Apr 2024		19 May 2023
	Machine Age	hrs	Client Info		11048	10324	9508
	Oil Age	hrs	Client Info		8105	8197	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	PQ		ASTM D8184		51	11	18
	Iron	ppm	ASTM D5185m	>500	116	13	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	0
	Nickel	ppm	ASTM D5185m		2	0	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>30	1	<1	<1
	Lead	ppm	ASTM D5185m	>13	0	<u>\$\text{\rm 25}\$</u>	2
	Copper	ppm	ASTM D5185m	>103	0	7	0
	Tin	ppm	ASTM D5185m	>5	<1	1	<1
	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 no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>100	11	3	3
	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
	Water		WC Method	>.2	NEG	NEG	NEG
	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	>.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	<1
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		1	0	2
	Barium	ppm	ASTM D5185m		2	<1	0
	Molybdenum	ppm	ASTM D5185m		0	<1	<1
	Manganese	ppm	ASTM D5185m		2	<1	<1
	Magnesium	ppm	ASTM D5185m		98	99	104
	Calcium	ppm	ASTM D5185m		3237	3506	3472
	Phosphorus	ppm	ASTM D5185m		1028	1060	1011
	Zinc	ppm	ASTM D5185m		1197	1280	1307
	Sulfur	ppm	ASTM D5185m		3872	3636	4276
	Visc @ 40°C	cSt	ASTM D445	59	52.0	54.0	52.2







Certificate L2367

Laboratory Sample No. Lab Number

: JR0206709 : 06160669 Unique Number: 10996092

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: PQ)

: 25 Apr 2024 : 26 Apr 2024

: 27 Apr 2024 - Don Baldridge

JRE - CHARLOTTE 9550 STATESVILLE ROAD

CHARLOTTE, NC US 28269

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com

T: (704)597-0211 F: (704)596-6198

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)