WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL



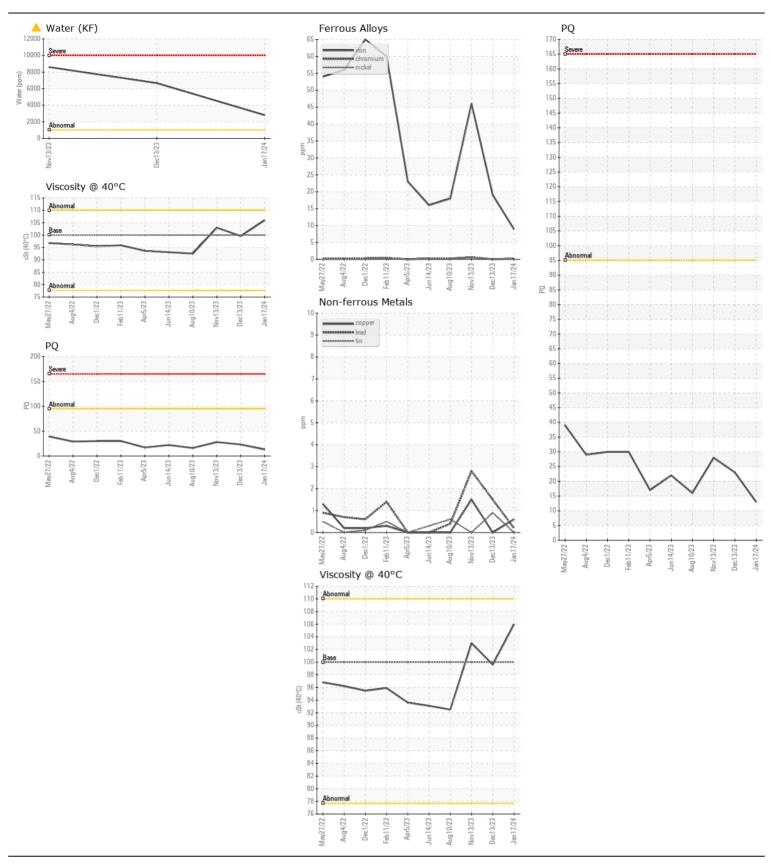
[05W44442]

CATERPILLAR 938M 0J3R03125

Transmission (Manual)

CAT TDTO TRANS-DRIVE SAE 30 (20 QTS)

CAT TDTO TRANS-DRIVE SAE	30 (20 Q I S))					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of water entry. We recommend that you drain the fluid from the component if this has not already been done. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0199202	JR0189984	JR0192063
	Sample Date		Client Info		17 Jan 2024	13 Dec 2023	13 Nov 2023
	Machine Age	hrs	Client Info		14960	14521	14521
	Oil Age	hrs	Client Info		439	14521	13098
	Filter Age	hrs	Client Info		439	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Not Changd	Not Changd	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAD							
WEAR All component wear rates are normal.	PQ		ASTM D8184		13	23	28
	Iron	ppm	ASTM D5185m		9	19	46
	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	<1
	Titanium	ppm	ASTM D5185m	7	0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		2	<1	2
	Lead	ppm	ASTM D5185m ASTM D5185m		<1	2	2
	Copper	ppm	ASTM D5165III	-	<1 0	<1	0
	Vanadium	ppm	ASTM D5185m	>10	0	0	<1
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			v isaai				
CONTAMINATION There is a light concentration of water present in the fluid.	Silicon	ppm	ASTM D5185m	>125	5	8	7
	Potassium	ppm	ASTM D5185m	>20	2	1	6
	Water	%	ASTM D6304	>0.1	<u> </u>	△ 0.666	△ 0.860
	ppm Water	ppm		>1000	<u>^</u> 2800	▲ 6660	A 8600
	Silt	scalar	*Visual	NONE	NONE	▲ MODER	
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	▲ HAZY	▲ HAZY
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	0.2%	0.2%	0.2%
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	5
The fluid is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		1	7	9
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	<1
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		10	<1	20
	Calcium	ppm	ASTM D5185m	2980	2716	2693	2655
	Phosphorus	ppm	ASTM D5185m	1100	993	921	1076
	Zinc	ppm	ASTM D5185m	1270	1153	1165	1328
	Sulfur	ppm	ASTM D5185m		6487	5956	7005
	Visc @ 40°C	cSt	ASTM D445	100	106	99.6	103





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06065141 : 10836523

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0199202 Recieved : 18 Jan 2024 Diagnosed : 24 Jan 2024 Diagnostician : Doug Bogart

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) JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA

US 20111

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