WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

CATERPILLAR 988F WRCH 2 (S/N 2ZR01298)

Component
Transmission (Manual)
Fluid

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06085440		
	Sample Date		Client Info		30 Jan 2024		
	Machine Age	hrs	Client Info		916		
	Oil Age	hrs	Client Info		916		
	Filter Age	hrs	Client Info		150		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ATTENTION		
WEAR	Iron	nnm	ACTM DE10Em	- 200	10		
VEAR	Iron Chromium	ppm	ASTM D5185m ASTM D5185m		12 <1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>5	0		
	Silver	ppm	ASTM D5105m	> 7	0		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		33		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		4		
There is no indication of any contamination in the fluid.	Potassium	ppm	ASTM D5185m		2		
	Water		WC Method	>0.1	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance Odor	scalar	*Visual	NORML NORML	NORML NORML		
	Emulsified Water	scalar scalar	*Visual	>0.1	NEG		
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FLUID CONDITION	Sodium	ppm	ASTM D5185m		10		
The fluid viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		2		
	Barium	ppm	ASTM D5185m		702		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		164		
	Calcium	ppm	ASTM D5185m		1893		
	Phosphorus	ppm	ASTM D5185m		661		
	Zinc	ppm	ASTM D5185m	1270	817		
	Sulfur	ppm	ASTM D5185m		4985		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.80		
	Visc @ 40°C Visc @ 100°C	cSt cSt	ASTM D445 ASTM D445		▲ 135 ▲ 15.8		





Certificate L2367

Laboratory Sample No. Unique Number: 10872885

Lab Number : 06085440

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06085440

Received **Tested** Diagnosed Test Package : MOB 2 (Additional Tests: KV100, VI)

: 09 Feb 2024 : 12 Feb 2024 : 12 Feb 2024 - Doug Bogart

WIE - WESTERN INDUSTRIAL EQUIPMENT 10761 N WILSON RD

LAKE CITY, MI US 49651 Contact: JOHN HIGGINS

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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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