

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



CATERPILLAR 980M 6161 (S/N MK210767)

Component
Rear Left Differential

TULCO LUBSOIL TO-4 50 (G	AL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number	00	Client Info	2	TO10002793	-	
	Sample Date		Client Info		18 Oct 2023		
	Machine Age	hrs	Client Info		8534		
	Oil Age	hrs	Client Info		300		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		None		
	Sample Status				NORMAL		
WEAR							
WEAR	PQ		ASTM D8184		20		
All component wear rates are normal.	Iron	ppm	ASTM D5185m		15		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		2		
	Tin Vanadium	ppm	ASTM D5185m	>5	0		
		ppm	ASTM D5185m	NONE	0 NONE		
	White Metal Yellow Metal	scalar	*Visual	NONE	NONE NONE		
		scalar	*Visual	NONE	INOINE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	7		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Water		WC Method	>.2	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		0		
I LOID CONDITION	Boron	ppm	ASTM D5185m		0		
Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		1		
	Manganese	ppm	ASTM D5185m		- <1		
	Magnesium	ppm	ASTM D5185m		28		
	Calcium	ppm	ASTM D5185m		2943		
	Phosphorus	ppm	ASTM D5185m		1018		
	Zinc	ppm	ASTM D5185m		1246		
	Sulfur	ppm	ASTM D5185m		6422		
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.46		
	Visc @ 40°C	cSt	ASTM D445		109		
	Visc @ 100°C	cSt	ASTM D445		11.9		
	Viscosity Index (VI)		ASTM D2270		97		





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

: TO10002793 : 05988275

: 10710937

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 24 Oct 2023 Diagnosed : 26 Oct 2023

Diagnostician : Don Baldridge Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

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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