WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

OIL ANALYSIS REPORT

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

Diesel Engine

DECOMMEND ATION	T	11014	NA - H-	1.59741	(a	118-22- 4	1.15.3
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06085460		
	Sample Date		Client Info		30 Jan 2024		
	Machine Age	hrs	Client Info		916		
	Oil Age	hrs	Client Info		150		
	Filter Age	hrs	Client Info		150		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	40		
	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		1		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		161		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	710	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
<u></u>			Visuai	NONL	·····		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0		
	Fuel	%	ASTM D3524	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	4.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	15.8		
	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	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		2		
les DNI versult in diseates the table que in a vitable all veligits, versus injury in the	Boron	ppm	ASTM D5185m		<1		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		29		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		41		
	Calcium	ppm	ASTM D5185m		2343		
	Phosphorus	ppm	ASTM D5185m		752		
	Zinc	ppm	ASTM D5185m		953		
	Sulfur	ppm	ASTM D5185m		3792		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	9.9		
	Base Number (BN)	mg KOH/g	ASTM D2896		8.50		
	Visc @ 100°C	cSt	ASTM D445		9.5		







Laboratory Sample No. Unique Number : 10872905

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06085460 Lab Number : 06085460

Tested

Received : 09 Feb 2024 : 12 Feb 2024 Diagnosed

: 12 Feb 2024 - Doug Bogart Test Package: MOB 2 (Additional Tests: FuelDilution, PercentFuel)

WIE - WESTERN INDUSTRIAL EQUIPMENT

10761 N WILSON RD LAKE CITY, MI US 49651 Contact: JOHN HIGGINS

Certificate L2367 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)

T: F: