WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

OIL ANALYSIS REPORT

CATERPILLAR D8T CAT D8T

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR05969811		
	Sample Date		Client Info		21 Sep 2023		
	Machine Age	hrs	Client Info		3236		
	Oil Age	hrs	Client Info		244		
	Filter Age	hrs	Client Info		244		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	nnm	ASTM D5185m	>100	10		
VLAN	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		2		
		ppm					
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m	>10	<1 0		
	Vanadium	ppm	ASTM D5185m	NONE	-		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.3		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4		
	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		
I LUD CONDITION	Codium	nnm	ACTM DE10E		2		
LUID CONDITION	Sodium	ppm	ASTM D5185m		2 21		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		121		
	Molybdenum	ppm					
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		113		
	Calcium	ppm	ASTM D5185m		3774		
	Phosphorus	ppm	ASTM D5185m		867		
	Zinc	ppm	ASTM D5185m		1039		
	Sulfur	ppm Abs/4mm	ASTM D5185m	05	4319		
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414	>25	10.8		
	Race Number (RM)	ma K()H/a	4511/11/2896		14.45		







Certificate L2367

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

: TR05969811 : 05969811 : 10681761 Test Package : MOB 2 To discuss this sample report, contact Customer Service at 1-800-827-0711.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 04 Oct 2023 : 05 Oct 2023 Diagnosed Diagnostician : Wes Davis

RUNDELL INC 2465 STATE HWY 38 DRAIN, OR US 97435

Contact: BOB RUNDELL bobrundell@rundellinc.com T:

* - 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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