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

Machine Id **CHALLENGER 765C-Z** 

**OIL ANALYSIS REPORT** 

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.	Sample Number		Client Info		TR05303260		
	Sample Date		Client Info		28 Jun 2021	18 May 2021	
	Machine Age	hrs	Client Info		3883	3641	
	Oil Age	hrs	Client Info		887	706	
	Filter Age	hrs	Client Info		887	706	
	Oil Changed	_	Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>100	60	62	
All component wear rates are normal	Chromium	ppm	ASTM D5185m	>20	1	2	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	<1	<1	
	Titanium	ppm	ASTM D5185m	>2	<1	<1	
	Silver	ppm	ASTM D5185m	>2	<1	0	
	Aluminum	ppm	ASTM D5185m	>25	1	4	
	Lead	ppm	ASTM D5185m	>40	2	2	
	Copper	ppm	ASTM D5185m	>330	3	4	
	Tin	ppm	ASTM D5185m	>15	1	1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	6	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		6	6	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		1.5	1.6	
	Nitration	Abs/cm	*ASTM D7624	>20	15.1	14.8	
	Sulfation	Abs/.1mm	*ASTM D7415		30.3	30.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m		1	3	
-LOID CONDITION	Boron	ppm	ASTM D5185m		13	15	
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					
		ppm	ASTM D5185m		0 7	0	
	Molybdenum	ppm	ASTM D5185m			8	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		31	19	
	Calcium	ppm	ASTM D5185m		4344	4735	
	Phosphorus	ppm	ASTM D5185m		945	1044	
	Zinc	ppm	ASTM D5185m		1117	1228	
	Sulfur	ppm Abo/1mm	ASTM D5185m	. 05	3420	3807	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	20.8	
	Base Number (BN)	mg KOH/g	ASTM D2896		10.3	10.1	





Certificate L2367

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

: TR05303260 : 05303260 : 9582220 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 15 Jul 2021 Diagnosed : 26 Jul 2021 Diagnostician : Jonathan Hester

JOHN FEHR 1402 40TH AVE WEST BEND, IA US 50597

Contact: JUSTIN HELLICKSON

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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F: