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

ABC93801 (S/N S490308B)

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LITTIOTOTT	WC0772587		
Resample at the next service interval to monitor.	Sample Date		Client Info		28 Feb 2023		
	Machine Age	hrs	Client Info		393		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	2		
	Chromium	ppm	ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	77	<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 25	 Л		
ONTAMINATION	Potassium	ppm	ASTM D5185m		4 1		
There is no indication of any contamination in the oil.	Fuel	ppm					
	Water		WC Method		<1.0 NEG		
	Glycol		WC Method WC Method	>0.2	NEG		
	Soot %	%	*ASTM D7844	~3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.4		
	Sulfation	Abs/.1mm	*ASTM D7415		16.5		
	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		*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m	-11	1		
	Boron	ppm	ASTM D5185m	>44	1 78		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.		ppm					
	Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m		0 78		
	Manganese	ppm	ASTM D5185m	100	<1		
	Magnesium	ppm	ASTM D5185m	450	64		
	Calcium	ppm	ASTM D5185m		2115		
	Phosphorus	ppm	ASTM D5185m		987		
	Zinc		ASTM D5185m		1244		
	Sulfur	ppm	ASTM D5185m		4091		
	Oxidation	Abs/.1mm	*ASTM D3163111		12.2		
	Base Number (BN)				10.67		
	Visc @ 40°C	cSt	ASTM D2090		99.7		
	Visc @ 40 C	cSt	ASTM D445		13.5		
	1100 @ 100 U	001	CFFG IVI OI .	17.7	10.0		





Certificate L2367

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

: WC0772587 : 05796718 : 10386402

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 20 Mar 2023 Diagnosed : 23 Mar 2023 Diagnostician : Doug Bogart

Test Package : MOB 2 (Additional Tests: KV40, 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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