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

**NORMAL ABNORMAL NORMAL** 

## 3BPZL70X3GF105194

**OIL ANALYSIS REPORT** 

Component Diesel Engine

	AL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.	Sample Number	00	Client Info	21111071011	TR06054165		
	Sample Date		Client Info		15 Nov 2023		
	Machine Age	mls	Client Info		0		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAD			AOTA DE40E	405			
WEAR	Iron	ppm	ASTM D5185m		16		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium Silver	ppm	ASTM D5185m ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		12		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		<b>4</b> 9		
Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m		2		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	7.5	NEG		
	Soot %	% Aba/am	*ASTM D7844		1 1 0		
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	15.2 30.2		
	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	ppm	ASTM D5185m		6		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		145		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		30		
	Calcium	ppm	ASTM D5185m		4537		
	Phosphorus	ppm	ASTM D5185m		985		
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		1120 4502		
		Abs/.1mm	*ASTM D7414	>25	4502 22.7		
	( )YIMation						
	Oxidation  Base Number (BN)			720			
	Base Number (BN) Visc @ 100°C			720	9.39 16.9		





Laboratory Sample No. Lab Number Certificate L2367

: TR06054165 : 06054165 **Unique Number** : 10820114 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 08 Jan 2024 : 09 Jan 2024

Diagnosed Diagnostician : Sean Felton **MARCHETTI COMMERCIAL FUELS** 

131 BALLARD ST SAUGUS, MA US 01906

Contact: DON PERCY

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: