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

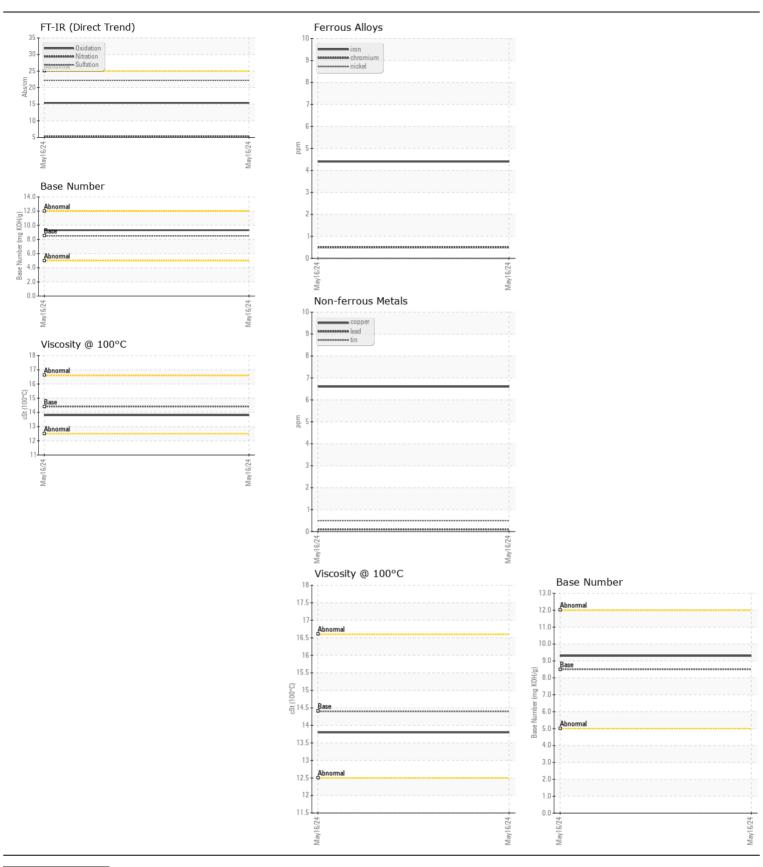
**NORMAL NORMAL NORMAL** 

Machine Id

## 3001/RTW-1

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number	COM	Client Info	Littleyton	WC0868237		
	Sample Date		Client Info		16 May 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	0	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	4		
	Chromium	ppm	ASTM D5185m		- <1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		5		
	Lead			>40	<1		
	Copper	ppm ppm	ASTM D5185m		7		
	Tin	ppm	ASTM D5185m		, <1		
	Vanadium	ppm	ASTM D5185m	>10	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m	<b>\25</b>	6		
CONTAININATION	Potassium	ppm	ASTM D5185m		2		
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0		
	Water		WC Method		<1.0 NEG		
	Glycol		WC Method	>0.2	NEG		
	Soot %	%	*ASTM D7844	. 2	0.1		
	Nitration		*ASTM D7624		5.3		
		Abs/tmm	*ASTM D7624	>20			
	Sulfation Silt	Abs/.1mm	*Visual		22.2 NONE		
		scalar		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		
FLUID CONDITION  The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>158	0		
	Boron	ppm	ASTM D5185m		402		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		137		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	450	752		
	Calcium	ppm	ASTM D5185m		1785		
	Phosphorus	ppm	ASTM D5185m		799		
	Zinc	ppm		1350	942		
	Sulfur	ppm	ASTM D5185m		3170		
	Oxidation	Abs/.1mm	*ASTM D3163111		15.4		
	Base Number (BN)		ASTM D2896		9.3		
	Visc @ 100°C	cSt	ASTM D2090		13.8		







Certificate L2367

Laboratory Sample No.

Lab Number : 06188826

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0868237

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested** Unique Number : 11045578 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 23 May 2024 : 24 May 2024

: 24 May 2024 - Wes Davis

HOUSTON, TX US 77095 Contact: JEFF DAVIDSON jeff.davidson@cyfairfd.org T: (281)656-3440

**CYFAIR FIRE DEPARTMENT** 

10710 TELGE RD

\* - 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) F: (281)807-1853