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

FREIGHTLINER 1238

Component Diesel Engine

PECOMMENDATION	Toot	LIONA	Mothad	Limit/Abo	Currant	Lliotom/1	Llioton:0
RECOMMENDATION	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current WC0893784	History1	History2
Resample at the next service interval to monitor.	Sample Date		Client Info		31 Jan 2024		
	Machine Age	mls	Client Info		72511		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed	11115	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Ciletit IIIIO		NORMAL		
<u></u>					INONWAL		
WEAR	Iron	ppm	ASTM D5185m	>80	14		
	Chromium	ppm	ASTM D5185m	>5	<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3		
There is no indication of any content to the oil	Potassium	ppm	ASTM D5185m	>20	6		
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.6		
	Nitration	Abs/cm	*ASTM D7624	>20	6.8		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		5		
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	100	60		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		945		
	Calcium	ppm	ASTM D5185m		1070		
	Phosphorus	ppm	ASTM D5185m	1150	1050		
	Zinc	ppm	ASTM D5185m		1245		
	Sulfur	ppm	ASTM D5185m	4250	2885		
	Oxidation	Abs/.1mm	*ASTM D7414		13.8		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.4		
	Visc @ 100°C	cSt	ASTM D445	14.4	13.2		







Report Id: CONFAY [WUSCAR] 06085913 (Generated: 02/13/2024 09:44:45) Rev: 1

Laboratory Sample No.

Lab Number : 06085913 Unique Number: 10873358 Test Package : MOB 1 (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0893784 Received : 12 Feb 2024 **Tested** : 13 Feb 2024

Diagnosed

: 13 Feb 2024 - Wes Davis

CONCRETE SERVICE CO - FAY BLOCK 161 BUILDERS BLVD

FAYETTEVILLE, NC US 28301

Contact: Service Manager

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)

Contact/Location: Service Manager - CONFAY

T:

F: