WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

FREIGHTLINER 1223

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
	Sample Number	COM	Client Info	Limitorion	WC0906188		
Resample at the next service interval to monitor.	Sample Date		Client Info		17 Apr 2024		
	Machine Age	mls	Client Info		296382		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>80	8		
	Chromium	ppm	ASTM D5185m	>5	2		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>30	1		
	Lead	ppm	ASTM D5185m		3		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m		1		
	Vanadium	ppm	ASTM D5185m	-	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m	>20	4		
	Potassium	ppm	ASTM D5185m		2		
There is no indication of any contamination in the oil.	Fuel	le le	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	6.6		
	Sulfation	Abs/.1mm	*ASTM D7415		18.6		
	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		
LUID CONDITION	Sodium	ppm	ASTM D5185m	>158	<1		
	Boron	ppm	ASTM D5185m		1		
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	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		57		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m	450	868		
	Calcium	ppm	ASTM D5185m		1011		
	Phosphorus	ppm	ASTM D5185m		992		
	Zinc	ppm	ASTM D5185m		1133		
	Sulfur	ppm	ASTM D5185m		3145		
	Oxidation	Abs/.1mm	*ASTM D7414		14.2		
	Base Number (BN)		ASTM D2896		8.3		
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Contact/Location: BRYAN VANNIMAN - CONFAY





Laboratory Sample No.

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

: WC0906188

Lab Number : 06152787 Unique Number: 10982865

Received **Tested** Diagnosed

: 18 Apr 2024 : 18 Apr 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: TBN)

: 18 Apr 2024

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)

CONCRETE SERVICE CO - FAY BLOCK

161 BUILDERS BLVD FAYETTEVILLE, NC

US 28301

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