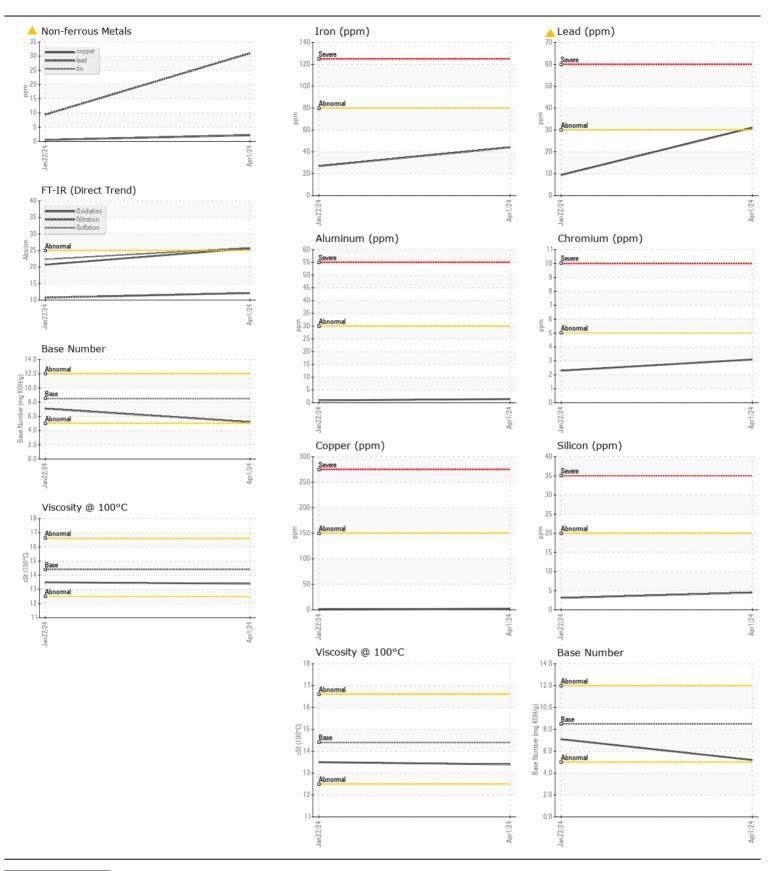
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL** NORMAL **NORMAL**

Machine Id

FREIGHTLINER 1221

Component
Diesel Engine

	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number		Client Info		WC0917289		
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		01 Apr 2024	22 Jan 2024	
	Machine Age	mls	Client Info		262471	0	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	\80	44	27	
VEAIT	Chromium	ppm	ASTM D5185m		3	2	
The lead level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		1	0	
	Titanium	ppm	ASTM D5185m	/ L	<1	0	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m		1	<1	
	Lead	ppm	ASTM D5185m		▲ 31	9	
	Copper	ppm	ASTM D5185m		2	<1	
	Tin	ppm	ASTM D5185m		2	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTARMINIATION	0.11.		AOTH DELOE				
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	3	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		7	7	
	Fuel			>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.9	0.6	
	Nitration Sulfation	Abs/tmm	*ASTM D7624 *ASTM D7415	>20	12.1 25.8	10.7 22.3	
	Silt	Abs/.1mm	*Visual	NONE	25.6 NONE	NONE	
	Debris	scalar scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt		*Visual	NONE	NONE	NONE	
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water			>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>158	15	24	
The DN regult indicates that there is quitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	0	2	
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	10	0	0	
	Molybdenum	ppm	ASTM D5185m	100	62	64	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		941	986	
	Calcium	ppm	ASTM D5185m		1073	1079	
	Phosphorus	ppm	ASTM D5185m		1087	1097	
	Zinc	ppm	ASTM D5185m		1229	1292	
	Sulfur	ppm	ASTM D5185m		3291	3002	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	25.6	20.7	
	Base Number (BN)				5.2	7.1	





Certificate L2367

Laboratory Sample No.

Lab Number : 06152802

Unique Number : 10982880 Test Package : MOB 1 (Additional Tests: TBN)

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0917289 Received : 18 Apr 2024 **Tested**

Diagnosed

: 19 Apr 2024 : 22 Apr 2024 - Don Baldridge

CONCRETE SERVICE CO - FAY BLOCK 161 BUILDERS BLVD FAYETTEVILLE, NC

US 28301 Contact: BRYAN VANNIMAN bryanvanniman@fayblock.com

* - 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: BRYAN VANNIMAN - CONFAY

T: (800)326-9198