WEAR CONTAMINATION **FLUID CONDITION**

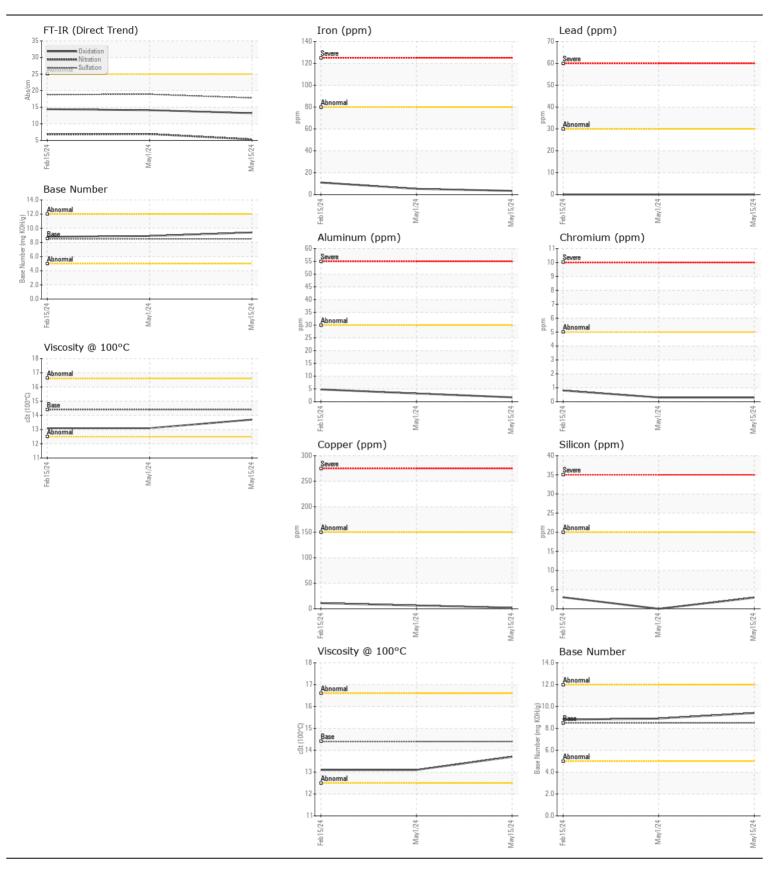
NORMAL NORMAL NORMAL

Machine Id

FREIGHTLINER 1236

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0917071	WC0917204	WC090626
Resample at the next service interval to monitor.	Sample Date		Client Info		15 May 2024	01 May 2024	15 Feb 202
	Machine Age	mls	Client Info		93402	91624	80095
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>80	3	5	11
	Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	5
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>150	2	6	11
	Tin	ppm	ASTM D5185m	>5	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	> 20	3	0	3
CONTAMINATION	Potassium	ppm	ASTM D5185m		4	5	7
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624		5.3	6.9	6.8
	Sulfation	Abs/.1mm	*ASTM D7415		17.8	18.9	18.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Codium	nnm	ASTM D5185m	. 150	.4	2	·····
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm			9	0	
	Barium	ppm	ASTM D5185m		0	0	0 57
	Molybdenum	ppm	ASTM D5185m	100	56	60	
	Magnesium	ppm	ASTM D5185m	450	0 877	<1 080	<1
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		1096	980 1124	910
	Phosphorus	ppm	ASTM D5185m		1104	1084	946
	Zinc	ppm	ASTM D5185m		1104	1268	1138
	Sulfur	ppm	ASTM D5185m		3110	3512	3251
	Oxidation	ppm Abs/.1mm	*ASTM D3163111		13.2	14.1	14.4
	Base Number (BN)				9.4	8.9	8.8
		THU IN JIT/()	COLIVITIONS	O.J	3.4	().7	0.0







Certificate L2367

Laboratory Sample No.

Lab Number : 06214236

: WC0917071 Unique Number : 11087100

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jun 2024 **Tested**

: 20 Jun 2024 Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 20 Jun 2024 - Wes Davis

CONCRETE SERVICE CO - FAY BLOCK 161 BUILDERS BLVD FAYETTEVILLE, NC US 28301 Contact: BRYAN VANNIMAN

bryanvanniman@fayblock.com T: (800)326-9198

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)