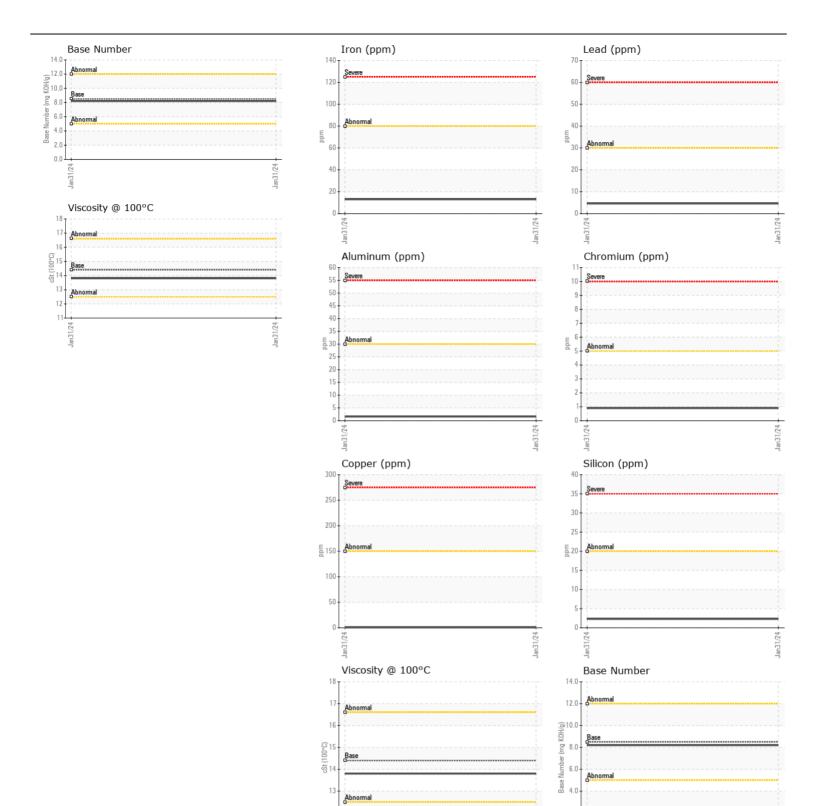
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

FREIGHTLINER 2119

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HECOMMENDATION	Sample Number	OOW	Client Info	LITTIU/AUTI	WC0893785		
Resample at the next service interval to monitor.	Sample Date		Client Info		31 Jan 2024		
	Machine Age	mls	Client Info		377967		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed	11110	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Oliciti IIIIo		NORMAL		
<u></u>	·				·····		
WEAR	Iron	ppm	ASTM D5185m	>80	13		
	Chromium	ppm	ASTM D5185m	>5	<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>30	2		
	Lead	ppm	ASTM D5185m		5		
	Copper	ppm	ASTM D5185m		<1		
	Tin	ppm	ASTM D5185m	>5	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	9.1		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1		
	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		2		
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		969		
	Calcium	ppm	ASTM D5185m		1037		
	Phosphorus	ppm	ASTM D5185m	1150	1076		
	Zinc	ppm	ASTM D5185m	1350	1265		
	Sulfur	ppm	ASTM D5185m	4250	2927		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.2		
	Visc @ 100°C	cSt	ASTM D445		13.8		







Laboratory Sample No.

Lab Number : 06085933

: WC0893785

Tested Unique Number : 10873378 Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

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

: 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)

T:

F: