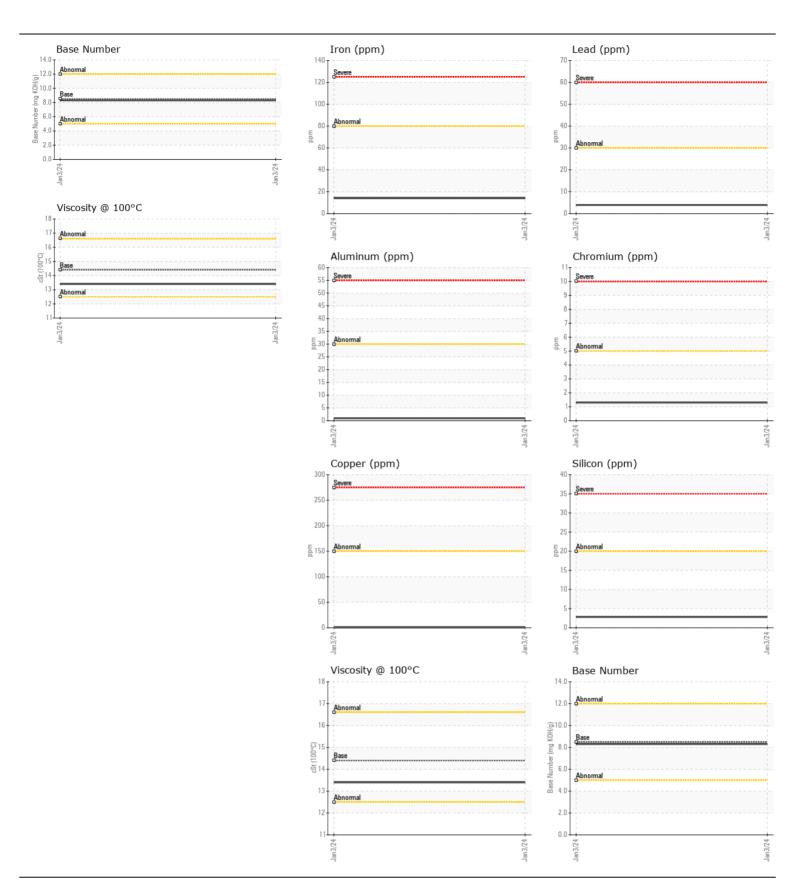
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

FREIGHTLINER 2123

Diesel Engine Pluid DIESEL ENGINE OIL SAE 40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TILCOMMENDATION	Sample Number	OOW	Client Info	LITTIU/AUTI	WC0878833		
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.	Sample Date		Client Info		03 Jan 2024		
	Machine Age	mls	Client Info		360360		
	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		Olichi illio		NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>80	14		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	1		
	Nickel	ppm	ASTM D5185m	>2	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>30	<1		
	Lead	ppm	ASTM D5185m	>30	4		
	Copper	ppm	ASTM D5185m	>150	<1		
	Tin	ppm	ASTM D5185m	>5	2		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		3		
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	0.8		
	Nitration	Abs/cm		>20	7.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9		
	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	0.00	ASTM D5185m	. 016	4		
FLUID CONDITION	Boron	ppm	ASTM D5185m		1 3		
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		
		ppm	ASTM D5185m				
	Molybdenum	ppm		100	54		
	Manganese	ppm	ASTM D5185m	150	<1		
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		961		
	Phosphorus	ppm	ASTM D5185m		1037		
		ppm			1010		
	Zinc	ppm	ASTM D5185m		1171		
	Sulfur	ppm Abo/1mm	ASTM D5185m		2926		
	Oxidation	Abs/.1mm	*ASTM D7414		15.1		
	Base Number (BN) Visc @ 100°C	cSt	ASTM D2896 ASTM D445		8.3		
	VISC @ TOO'C	USL	49 I IVI D445	14.4	13.4		







Laboratory Sample No.

Lab Number **Unique Number**

: 06075387 : 10857478

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0878833 Recieved : 31 Jan 2024 : 01 Feb 2024 Diagnosed

Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: TBN) 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**

161 BUILDERS BLVD FAYETTEVILLE, NC US 28301

Contact: Service Manager

T: F: