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

FREIGHTLINER 1220

Diesel Engine							
DIESEL ENGINE OIL SAE 40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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 Number	UCIVI	Client Info	LIIIIIUAUII	WC0878795		
	Sample Date		Client Info		28 Dec 2023		
	Machine Age	mls	Client Info		313880		
	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		
WEAR	Iron	ppm	ASTM D5185m	\80	4		
WEAIT	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m	>150	0		
	Tin	ppm	ASTM D5185m	>5	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 20	3		
CONTAMINATION	Potassium	ppm	ASTM D5185m		ა <1		
There is no indication of any contamination in the oil.	Fuel	ppm		>5	<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	7 O.L	NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	5.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9		
	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	ppm	ASTM D5185m	>216	1		
TEGIS CONSTITION	Boron	ppm	ASTM D5185m		10		
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		52		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	450	914		
	Calcium	ppm	ASTM D5185m	3000	1063		
	Phosphorus	ppm	ASTM D5185m	1150	1012		
	Zinc	ppm	ASTM D5185m	1350	1157		
	Sulfur	ppm	ASTM D5185m	4250	3022		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1		
	Base Number (BN)	0 0	ASTM D2896		8.9		
	Visc @ 100°C	cSt	ASTM D445	14.4	13.4		







Laboratory

Sample No. Lab Number **Unique Number**

: 06075421 : 10857512

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0878795 Recieved : 31 Jan 2024 : 01 Feb 2024 Diagnosed Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: TBN)

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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. **CONCRETE SERVICE CO** 161 BUILDERS BLVD

FAYETTEVILLE, NC US 28301

Contact: Service Manager

T: F: