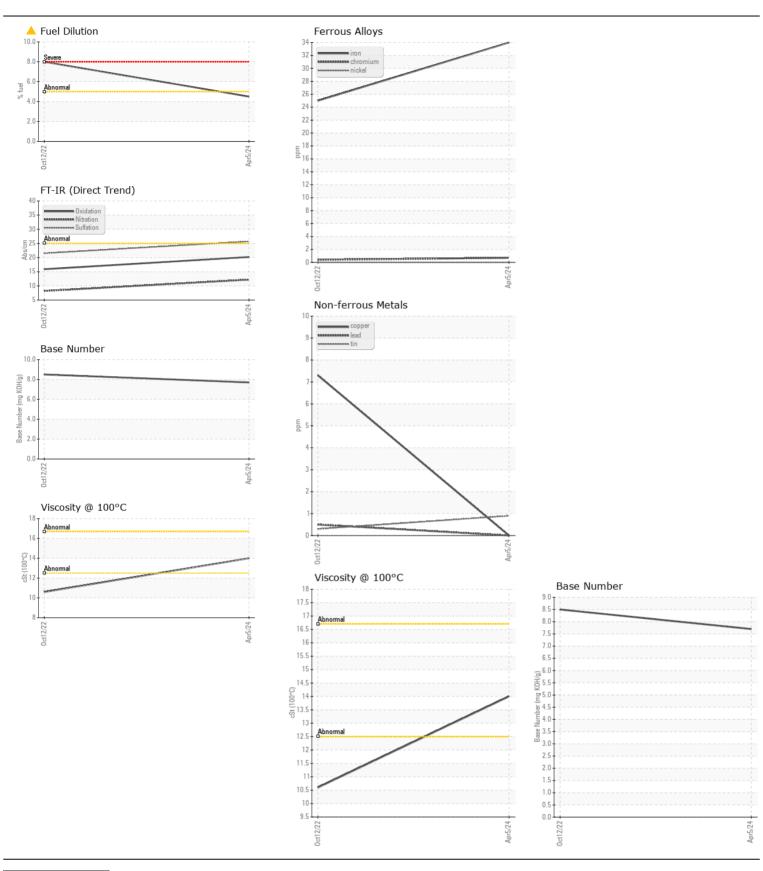
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL MARGINAL NORMAL** 

## COCA-COLA-TRAC-LIMA FREIGHTLINER CC18077

Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		NL0001948	-	
	Sample Date		Client Info		05 Apr 2024	12 Oct 2022	
	Machine Age	mls	Client Info		57211	31510	
	Oil Age	mls	Client Info		57211	31510	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				MARGINAL	SEVERE	
/EAR	Iron	ppm	ASTM D5185m	>80	34	25	
	Chromium	ppm	ASTM D5185m		<1	<1	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	<b>\3</b>	0	0	
	Aluminum	ppm	ASTM D5185m		4	4	
	Lead	ppm	ASTM D5185m	>30	0	<1	
	Copper	ppm	ASTM D5185m		0	7	
	Tin	ppm	ASTM D5185m		<1	, <1	
	Vanadium	ppm	ASTM D5185m	70	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Ciliaaa		ACTM DE10E	00		44	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	11	
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		12	10	
	Fuel	%	ASTM D3524		▲ 4.5	▲ 8.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		1.8	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	12.2	8.2	
	Sulfation	Abs/.1mm	*ASTM D7415		25.7	21.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
······	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
UID CONDITION	Sodium	ppm	ASTM D5185m		15	11	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		32	25	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		61	59	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		521	704	
	Calcium	ppm	ASTM D5185m		1891	1030	
	Phosphorus	ppm	ASTM D5185m		1130	841	
	Zinc	ppm	ASTM D5185m		1327	930	
	Sulfur	ppm	ASTM D5185m		3547	3389	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	15.9	
	Base Number (BN)	mg KOH/g	ASTM D2896		7.7	8.5	
	Visc @ 100°C	cSt	ASTM D445		14.0	<b>1</b> 0.6	







Certificate L2367

Laboratory Sample No.

: NL0001948 Lab Number : 06157282

Unique Number : 10992705

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

Diagnosed Test Package : FLEET ( Additional Tests: PercentFuel )

: 25 Apr 2024 : 25 Apr 2024 - Wes Davis

: 23 Apr 2024

**KIRK NATIONALEASE - SHOP 54** 3452 St. Johns Rd. LIMA, OH US 45804 Contact: Mason Reinhold shop54@knl.cc

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: (419)229-3848 F: (419)229-1395