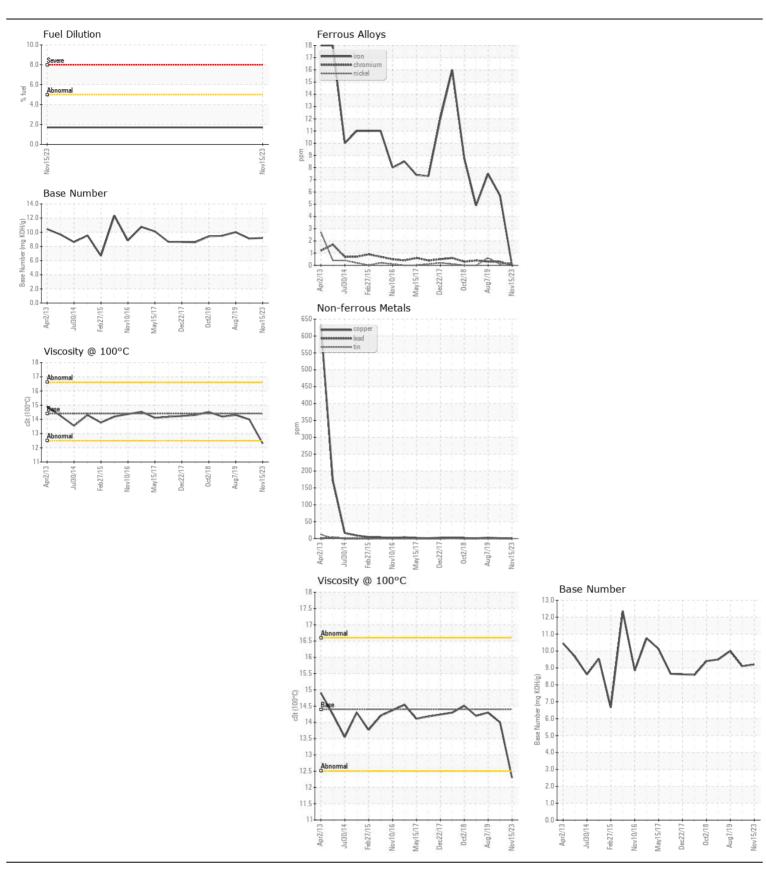
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id FREIGHTLINER 34053

Component Diesel Engine							
EXXON 15W40 (44 QTS)							
			Mathad	Limit/Alan	Current	History	LliatoryO
RECOMMENDATION The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0760531	WC0399184	WC0357797
	Sample Date	mala	Client Info		15 Nov 2023	02 Jan 2020	07 Aug 2019
	Machine Age	mls	Client Info		0	197880	0
	Oil Age	mls	Client Info		5000	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>80	0	6	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	0	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>30	1	2	3
	Lead	ppm	ASTM D5185m	>30	<1	<1	<1
	Copper	ppm	ASTM D5185m	>150	0	1	3
	Tin	ppm	ASTM D5185m	>5	<1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	3	4
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		0	2	10
	Fuel	%	ASTM D3524		1.7	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.4	0.4
	Nitration	Abs/cm		>20	5.7	7	6.4
	Sulfation	Abs/.1mm	*ASTM D7415		18.0	18.6	19.7
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	1	2
TESIS CONSTITUTE	Boron	ppm	ASTM D5185m		10	52	95
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	0	0
	Molybdenum	ppm	ASTM D5185m		67	39	62
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		1017	362	424
	Calcium	ppm	ASTM D5185m		1095	1812	1848
	Phosphorus	ppm	ASTM D5185m		1174	988	1050
	Zinc	ppm	ASTM D5185m		1386	1083	1224
	Sulfur	ppm	ASTM D5185m		3698	3970	2936
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	13	15.5
	Base Number (BN)				9.2	9.1	10
	Visc @ 100°C	cSt	ASTM D445	14.4	12.3	14.0	14.3
		•		-			







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WC0760531 : 06054612 : 10820561

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 08 Jan 2024 : 12 Jan 2024 Diagnosed Diagnostician : Wes Davis

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) 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)

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