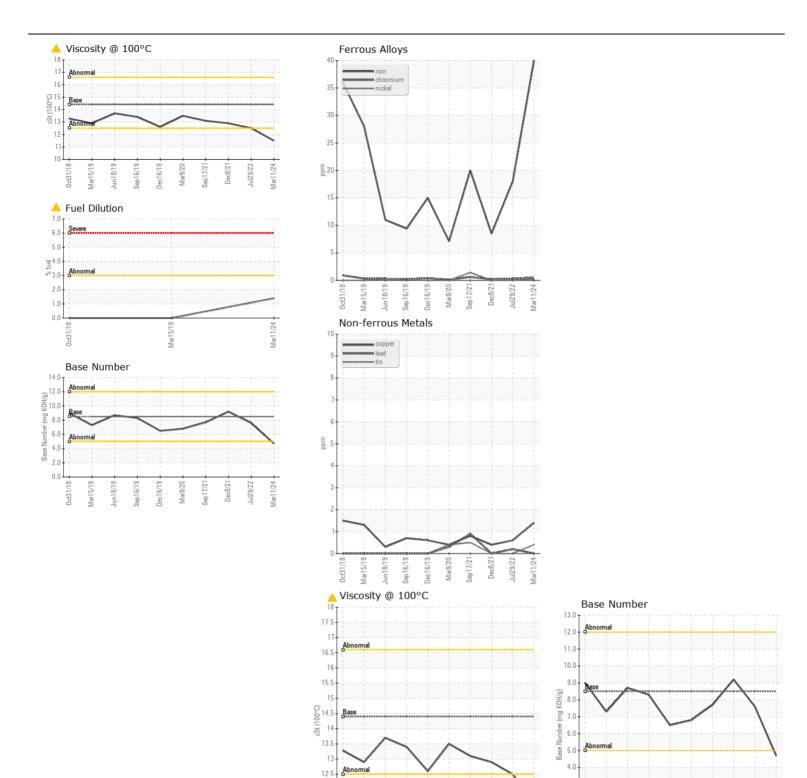
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL ABNORMAL

FREIGHTLINER 17768

Component
Diesel Engine

DECOMMEND ATION	Toot	LIONA	Mother	Limit/Alec	C	I liete :: : 4	l liete · O
RECOMMENDATION	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current WC0867016	History1 WC0669392	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		11 Mar 2024	29 Jul 2022	08 Dec 202
	Machine Age	mls	Client Info		123533	102740	93658
	Oil Age	mls	Client Info		8214	9082	3066
	Filter Age	mls	Client Info		8214	9082	3066
	Oil Changed	11113	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Oliciti IIIIO		ABNORMAL	NORMAL	NORMAL
	· · · · · · · · · · · · · · · · · · ·						
WEAR	Iron	ppm	ASTM D5185m	>90	40	18	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	3
	Aluminum	ppm	ASTM D5185m	>20	3	2	2
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	1	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	3	3
ONTAMINATION	Potassium	ppm	ASTM D5185m		5	<1	1
Light fuel dilution occurring.	Fuel	%	ASTM D3524	>3.0	<u> </u>	<1.0	<1.0
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 O.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.6	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	11.3	12.2	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		24.0	24.2	21.8
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
THE CONDITION	0-2"		AOTH DE CO	450	۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	3	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		25	21	6
oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		2	0	0
	Mongonoso	ppm	ASTM D5185m	100	112	60	64
	Manganese	ppm	ASTM D5185m	150	<1 750	<1 766	<1
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m	3000	758 1269	766 1336	1018 1161
	Phosphorus	ppm	ASTM D5185m			881	1117
	Zinc	ppm	ASTM D5185m		859 1136	1142	1214
	Sulfur	ppm	ASTM D5185m			2979	2814
	Oxidation	ppm Abe/ 1mm	*ASTM D5185m		2806 20.5	2979	17.1
	Oxidation	Abs/.1mm	MOTIVI D/414	>25	20.5	22.0	1/.1
	Base Number (BN)	ma KOH/a	ASTM D2896	8.5	4.7	7.6	9.2







Certificate L2367

Laboratory Sample No.

Lab Number : 06125389 Unique Number: 10939540

To discuss this sample report, contact Customer Service at 1-800-237-1369.

10.5

Oct31/18

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0867016 Received : 21 Mar 2024 : 25 Mar 2024 **Tested**

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

Sep17/21

: 25 Mar 2024 - Wes Davis

Jul29/22 Mar11/24

2.0

Oct31/18

WINSTON SALEM, NC US 27105 Contact: Audrey Hopkins

198 PARK PLAZA DRIVE

Sep17/21.

Audrey.Hopkins@salemcorp.com T: (336)767-9642

SALEM NATIONALEASE CORPORATION

* - 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)

F: x:

Mar11/24