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

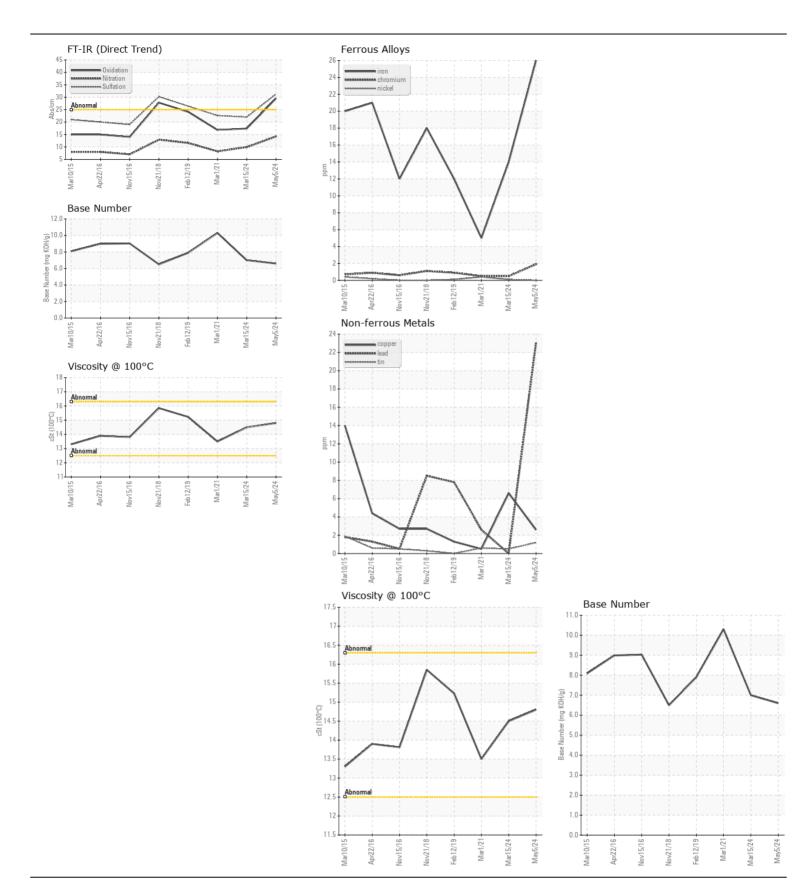
**NORMAL NORMAL NORMAL** 

Machine Id

## **FREIGHTLINER 11036**

Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0829772	WC0829540	WC053919
	Sample Date		Client Info		05 May 2024	15 Mar 2024	01 Mar 202
	Machine Age	mls	Client Info		0	373885	200551
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAI
/EAR	Iron	ppm	ASTM D5185m	>90	26	14	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	6	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		4	9	<1
	Lead	ppm	ASTM D5185m		23	0	3
	Copper	ppm	ASTM D5185m		3	7	<1
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
ONTAMINATION	Silicon	ppm	ASTM D5185m	<b>\25</b>	8	5	5
ONTAIVIINATION	Potassium	ppm	ASTM D5185m		8	1	2
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>&gt;</i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<b>\6</b>	0.7	0.4	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	14.2	9.9	8.2
	Sulfation	Abs/.1mm	*ASTM D7415		31.2	22.0	22.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONI
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION  The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Cadium		ACTM DE10Em	. 150		.4	0
	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	>100	3 66	<1 96	2 20
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		88	72	63
	Manganese		ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		1128	817	916
	Calcium	ppm	ASTM D5185m		1558	1606	1356
	Phosphorus	ppm	ASTM D5185m		1405	786	1112
	Zinc	ppm	ASTM D5185m		1711	941	1292
	Sulfur	ppm	ASTM D5185m		4076	3463	3031
	Oxidation	Abs/.1mm	*ASTM D7414	>25	29.5	17.4	16.8
	Base Number (BN)		ASTM D2896	723	6.6	7.0	10.3
	Dase Number (DIV)	THY NOT/Y	70 LINI DZ030		0.0	7.0	10.3







Certificate L2367

Laboratory Sample No. Lab Number : 06217602

Unique Number : 11090466

Test Package : FLEET

: WC0829772

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

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

: 25 Jun 2024 Diagnosed : 25 Jun 2024 - Don Baldridge

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com

T: (336)767-9642

\* - 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: