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

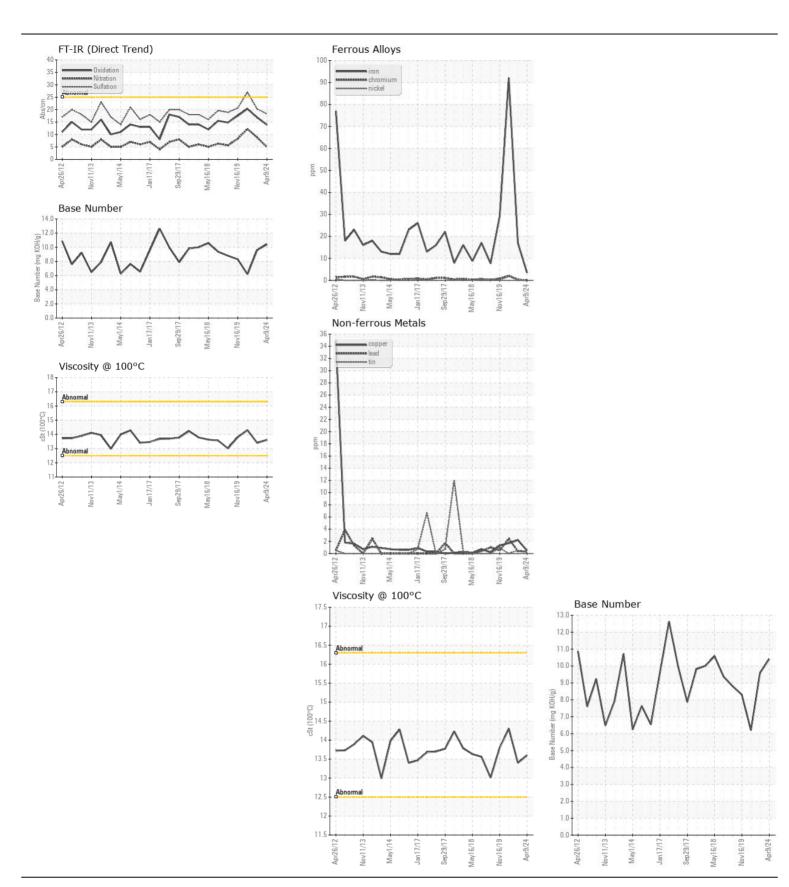
**NORMAL NORMAL NORMAL** 

Machine Id

## **FREIGHTLINER 45381**

Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0912492	WC0891624	WC036492
	Sample Date		Client Info		09 Apr 2024	17 Jan 2024	04 Jun 202
	Machine Age	mls	Client Info		342647	0	254655
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Change
	Filter Changed		Client Info		Changed	Changed	Change
	Sample Status				NORMAL	NORMAL	ABNORM
/EAR	Iron	ppm	ASTM D5185m	>90	4	17	<u>\$\text{92}\$</u>
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	<1	2
	Nickel	ppm	ASTM D5185m		0	<1	2
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	3	8
	Lead	ppm	ASTM D5185m	>40	<1	<1	2
	Copper	ppm	ASTM D5185m	>330	<1	2	2
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	11
	Potassium	ppm	ASTM D5185m		1	3	6
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.1	0.4	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	4.9	8.8	12.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	20.3	27
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NOR
	Odor	scalar	*Visual	NORML	NORML	NORML	NORI
	<b>Emulsified Water</b>		*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.	Sodium	ppm	ASTM D5185m	<b>\118</b>	2	3	3
	Boron	ppm	ASTM D5185m	7110	2	1	19
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		56	62	17
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		938	994	127
	Calcium	ppm	ASTM D5185m		1019	1115	2520
	Phosphorus	ppm	ASTM D5185m		1013	1100	990
	Zinc	ppm	ASTM D5185m		1214	1289	1156
	Sulfur	ppm	ASTM D5185m		3780	3725	2973
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	16.8	20.3
	Base Number (BN)		ASTM D2896	/20	10.4	9.6	6.2
	Dasc Nulliber (DIV)	my Romy	ASTM D2090		10.4	13.4	14.3







Certificate L2367

Laboratory Sample No.

: WC0912492 Lab Number : 06153659 Unique Number : 10983737 Test Package : FLEET

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

Received **Tested** Diagnosed

: 18 Apr 2024 : 19 Apr 2024

: 19 Apr 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com

T: (336)767-9642 F: x:

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)