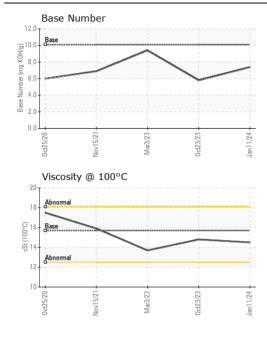
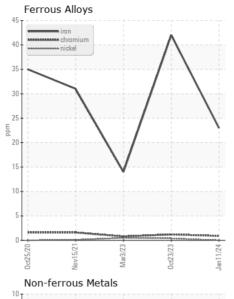
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

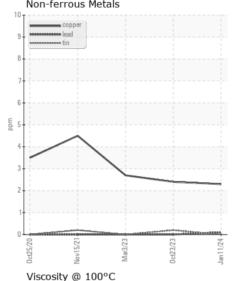
## Machine Id FREIGHTLINER 528523

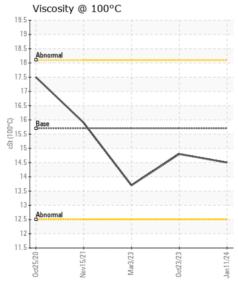
Component Diesel Engine

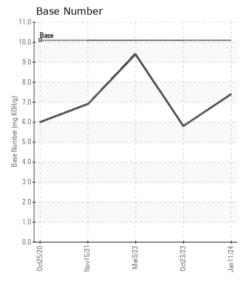
SHELL ROTELLA T 15W40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0842011	WC0842129	WC0742243
	Sample Date		Client Info		11 Jan 2024	23 Oct 2023	03 Mar 2023
	Machine Age	mls	Client Info		464270	441689	410414
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	23	42	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	1	<1
	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	6	10	5
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		2	2	3
	Tin	ppm	ASTM D5185m	>15	0	<1	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	>25	4	6	3
	Potassium	ppm	ASTM D5185m		0	1	2
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	>3	0.9	1.3	0.4
	Nitration	Abs/cm	*ASTM D7624		10.2	11.4	7.7
	Sulfation	Abs/.1mm	*ASTM D7415		23.1	24.9	19.5
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	1
	Boron	ppm	ASTM D5185m	316	26	5	7
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		68	63	64
	Manganese	ppm	ASTM D5185m	1.2	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	24	941	967	1007
	Calcium	ppm	ASTM D5185m		1133	1084	1119
	Phosphorus	ppm	ASTM D5185m		1029	1014	1072
	Zinc		ASTM D5185m		1029	1273	1338
	Sulfur	ppm	ASTM D5185m		2805	2797	4351
	Oxidation	ppm Abs/1mm	*ASTM D7414		19.9	21.4	14.7
		Abs/.1mm			7.4	5.8	9.4
	Base Number (BN)						
	Visc @ 100°C	cSt	ASTM D445	15./	14.5	14.8	13.7













Certificate L2367

Laboratory Sample No.

: WC0842011 Lab Number : 06099634 Unique Number: 10897864 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 : 27 Feb 2024 **Tested** 

: 28 Feb 2024 - Jonathan Hester Diagnosed

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com

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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