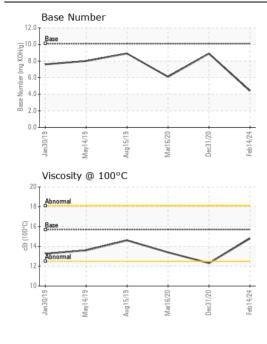
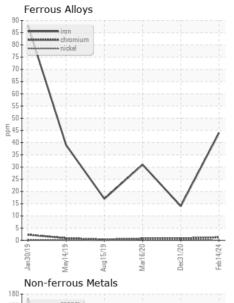
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

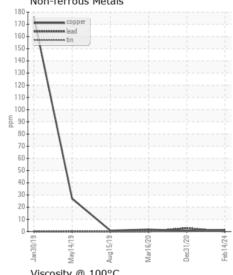
FREIGHTLINER 13089

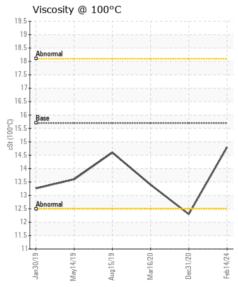
Component Diesel Engine

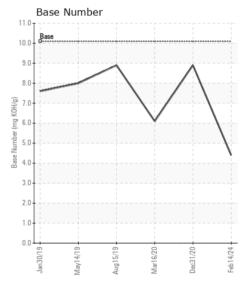
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0904377	WC0478324	WC041009
	Sample Date		Client Info		14 Feb 2024	31 Dec 2020	16 Mar 202
	Machine Age	mls	Client Info		153889	0	45268
	Oil Age	mls	Client Info		10000	0	0
	Filter Age	mls	Client Info		10000	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ATTENTION	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>130	44	14	31
WEAR	Chromium	ppm	ASTM D5185m		1	<1	<1
All component wear rates are normal.	Nickel		ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver		ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		5	4	4
	Lead	ppm	ASTM D5185m		0	3	0
	Copper	ppm	ASTM D5185m		1	<1	2
	Tin	ppm	ASTM D5185m		- <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		8	5	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	0	19
	Fuel		WC Method		<1.0	1.5	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.6	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	16.6	9.3	8.8
	Sulfation	Abs/.1mm	*ASTM D7415		32.8	20.8	20.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE	NONE
	Appearance Odor	scalar scalar	*Visual	NORML NORML	NORML	NORML NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
	Liliuisilleu watei	Scalai	visuai	>0.2		INLG	NLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	2
The DNI was the indicates that they are in a titable all collectivity was activities in the	Boron	ppm	ASTM D5185m	316	8	9	10
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	0	0
	Molybdenum	ppm	ASTM D5185m	1.2	70	64	7
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	24	1098	955	52
	Calcium	ppm	ASTM D5185m		1277	1187	2556
	Phosphorus	ppm	ASTM D5185m	1064	1185	1021	898
	Zinc	ppm	ASTM D5185m	1160	1462	1192	1075
	Sulfur	ppm	ASTM D5185m		3008	2561	2872
	Oxidation	Abs/.1mm	*ASTM D7414		36.9	15.8	12.2
	Base Number (BN)	mg KOH/g	ASTM D2896	10.1	4.4	8.9	6.1
	Visc @ 100°C	cSt	ASTM D445	4	14.8	12.3	13.4













Certificate L2367

Laboratory Sample No.

: WC0904377 Lab Number : 06103599 Unique Number: 10901829 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024 **Tested** : 29 Feb 2024 Diagnosed

: 01 Mar 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

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)

F: x: