WEAR CONTAMINATION **FLUID CONDITION**

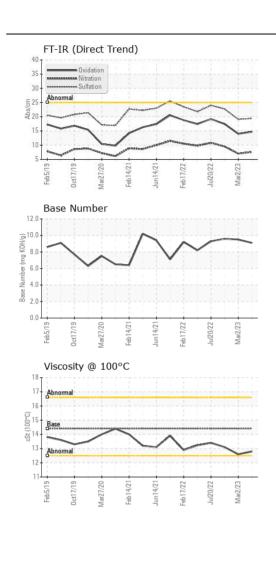
NORMAL NORMAL NORMAL

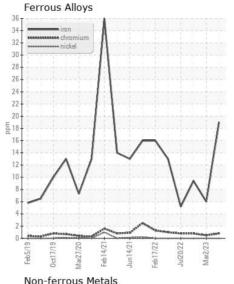
Machine Id

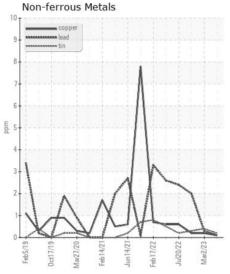
FREIGHTLINER 45834

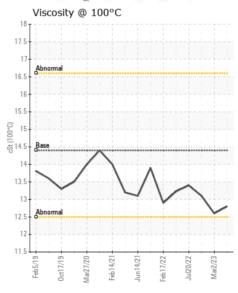
Component Diesel Engine

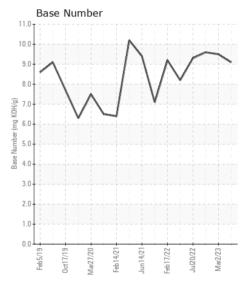
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0903543	WC0725106	WC072508
	Sample Date		Client Info		08 Apr 2024	02 Mar 2023	16 Nov 202
	Machine Age	mls	Client Info		424549	414587	407982
	Oil Age	mls	Client Info		27916	6605	11349
	Filter Age	mls	Client Info		27916	6605	11349
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	\165	19	6	9
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel		ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver		ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		16	2	2
	Lead	ppm	ASTM D5185m		<1	<1	2
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	4	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		30	1	4
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624		7.6	7.0	9.5
	Sulfation	Abs/.1mm	*ASTM D7415		19.4	19.1	22.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE NORML	NONE
	Appearance	scalar	*Visual	NORML	NORML		NORM NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	
<u></u>	Emulsified Water	Scalai	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	1
T. D	Boron	ppm	ASTM D5185m		12	7	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	64	70
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		1067	915	969
	Calcium	ppm	ASTM D5185m		1172	1120	1182
	Phosphorus	ppm	ASTM D5185m		1186	990	1012
	Zinc	ppm	ASTM D5185m		1395	1189	1358
	Sulfur	ppm	ASTM D5185m		4094	3271	3631
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	14.0	17.4
	Base Number (BN)	mg KOH/g	ASTM D2896		9.1	9.5	9.6
							13.1













Certificate L2367

Laboratory Sample No.

Lab Number : 06149388

: WC0903543 Unique Number : 10979466 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Apr 2024 **Tested** : 16 Apr 2024 Diagnosed

: 16 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

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: