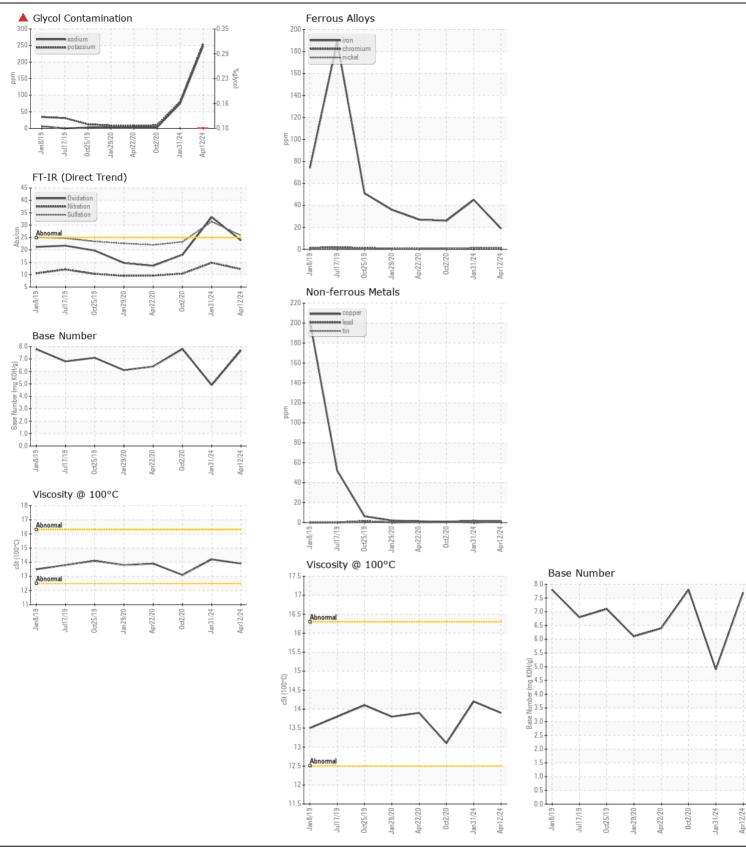
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ABNORMAL

Machine Id

FREIGHTLINER 13085

Component Diesel Engine Fluid							
MOBIL 15W40 (18 QTS)							
DECOMMENDATION							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. The oil is near the end of it's useful service life, recommend schedule an oil change. We advise that you flush the component thoroughly before refilling with oil. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0904387		WC0478252
	Sample Date		Client Info		12 Apr 2024	31 Jan 2024	02 Oct 2020
	Machine Age	mls	Client Info		106891	100663	60102
	Oil Age	mls	Client Info		0	25000	0
	Filter Age	mls	Client Info		0	25000	0
	Oil Changed		Client Info		N/A	Changed	N/A
	Filter Changed		Client Info		N/A	Changed	N/A
	Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	\80	19	45	26
	Chromium	ppm	ASTM D5185m		1	<1	<1
	Nickel	ppm	ASTM D5185m		1	1	<1
	Titanium	ppm	ASTM D5185m	72	<1	0	<1
	Silver	ppm	ASTM D5185m	~3	<1	0	0
	Aluminum	ppm	ASTM D5185m		10	5	4
	Lead		ASTM D5185m		1	0	<1
	Copper	ppm	ASTM D5185m		1	2	<1
	Tin	ppm	ASTM D5185m		1	<1	0
	Vanadium	ppm	ASTM D5185m	75	- <1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			v isuai		·····	INOINL	INOINL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	13	8	6
Test for glycol is positive. There is a high concentration of glycol present in the oil.	Potassium	ppm	ASTM D5185m	>20	255	<u> </u>	9
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		▲ 0.10	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.7	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	12.2	14.8	10.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8	31.4	23.2
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FILLID CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	248	<u>^</u> 75	3
Molybdenum ppm levels are abnormally high. Sodium ppm levels are notably high. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		71	16	4
	Barium	ppm	ASTM D5185m		1	0	<1
	Molybdenum	ppm	ASTM D5185m		<u> </u>	76	51
	Manganese	ppm	ASTM D5185m		2	<1	<1
	Magnesium	ppm	ASTM D5185m		677	1018	884
	Calcium	ppm	ASTM D5185m		1608	1283	1356
	Phosphorus	ppm	ASTM D5185m		799	1198	1015
	Zinc	ppm	ASTM D5185m		933	1480	1185
	Sulfur	ppm	ASTM D5185m		2946	3051	2608
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.8	33.2	18
	Base Number (BN)	•			7.7	4.9	7.8
	Visc @ 100°C	cSt	ASTM D445		13.9	14.2	13.1







Certificate L2367

Laboratory Sample No.

Lab Number : 06152562

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0904387 Unique Number: 10982640

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

Received **Tested**

: 17 Apr 2024 Diagnosed Test Package: FLEET (Additional Tests: Glycol)

: 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

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