WEAR CONTAMINATION **FLUID CONDITION**

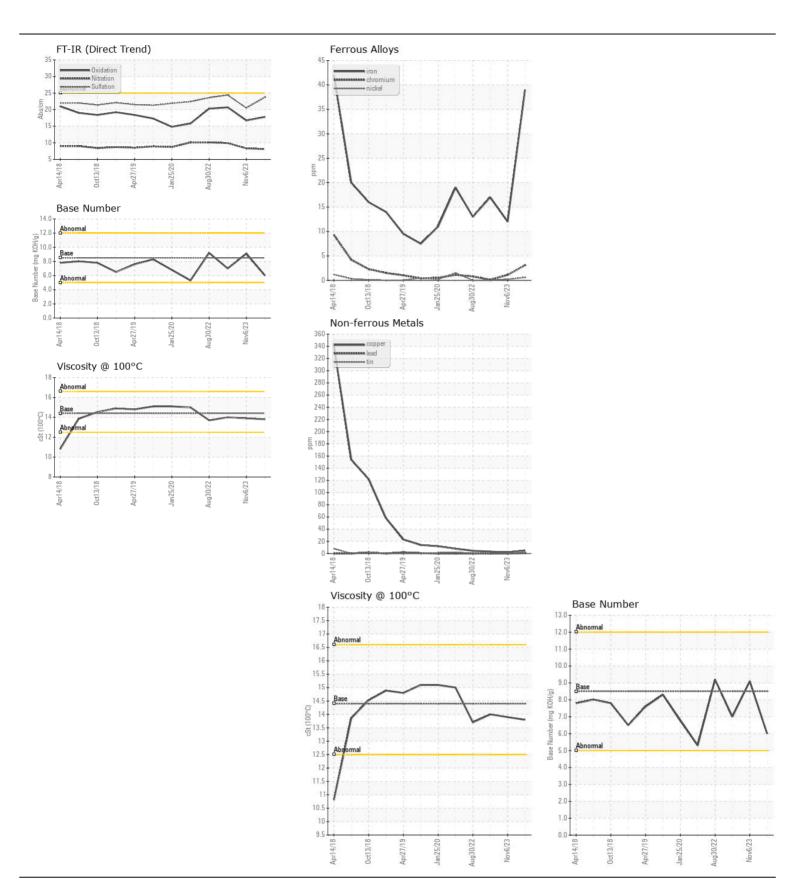
NORMAL NORMAL NORMAL

Machine Id

FREIGHTLINER 54384

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0936306	WC0869187	WC0806007
	Sample Date		Client Info		01 May 2024	06 Nov 2023	27 May 2023
	Machine Age	mls	Client Info		489234	456773	416618
	Oil Age	mls	Client Info		25000	0	0
	Filter Age	mls	Client Info		25000	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	>200	39	12	17
	Chromium	ppm	ASTM D5185m	>6	3	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>3	<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>50	25	10	6
	Lead	ppm	ASTM D5185m	>10	<1	0	0
	Copper	ppm	ASTM D5185m	>50	5	2	3
	Tin	ppm	ASTM D5185m	>6	2	<1	1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0:1:		AOTM DE40E		_	4	4
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	4	4
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		4	3	3
			WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG NEG	NEG NEG	NEG NEG
	Glycol Soot %	%	*ASTM D7844	- 3	0.8	0.5	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.3	9.9
	Sulfation	Abs/.1mm	*ASTM D7024		23.7	20.5	24.4
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	<1	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	82	5	0
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	96	60	68
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		519	945	1059
	Calcium	ppm	ASTM D5185m	3000	1429	1101	1188
	Phosphorus	ppm	ASTM D5185m		958	1039	1040
	Zinc	ppm	ASTM D5185m		1330	1304	1324
	Sulfur	ppm	ASTM D5185m		3053	3039	3210
	Oxidation	Abs/.1mm	*ASTM D7414		17.8	16.7	20.7
	Base Number (BN)		ASTM D2896		6.0	9.1	7.0
	Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.9	14.0







Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: WC0936306 Lab Number : 06190032 Unique Number : 11046784

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024 **Tested**

: 25 May 2024 Diagnosed : 25 May 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: