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

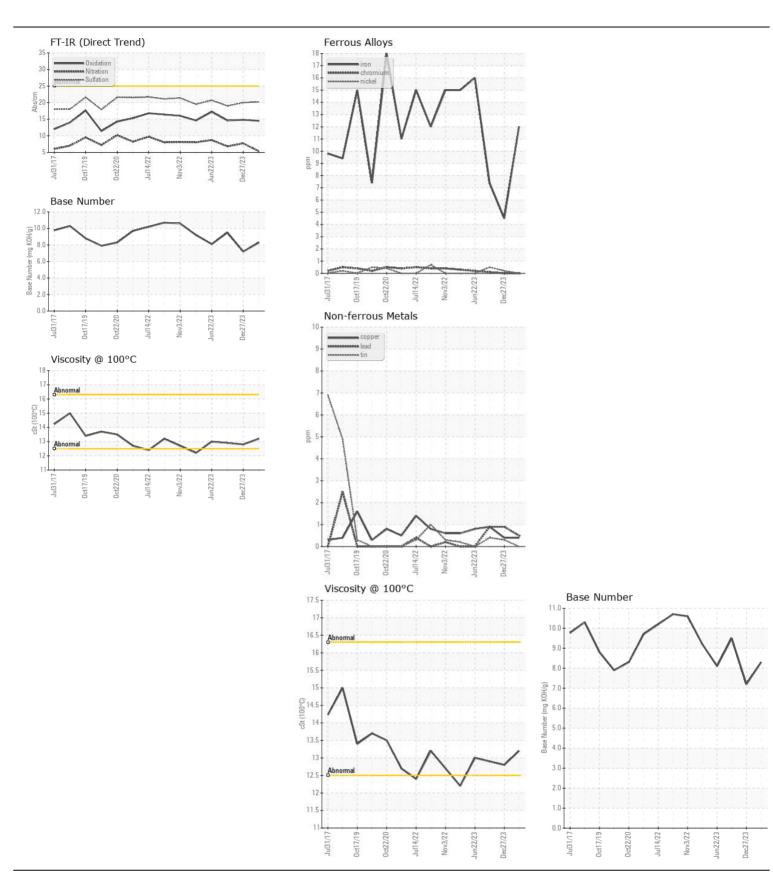
**NORMAL NORMAL NORMAL** 

Machine Id

## **FREIGHTLINER 17699**

Component Diesel Engine

MOBIL 15W40 (19 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0904537	WC0760539	WC0797867
	Sample Date		Client Info		28 Mar 2024	27 Dec 2023	21 Sep 202
	Machine Age	mls	Client Info		195491	193569	189438
	Oil Age	mls	Client Info		30000	0	0
	Filter Age	mls	Client Info		30000	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	>130	12	4	7
	Chromium	ppm	ASTM D5185m	>10	0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		4	2	2
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	3	3
	Potassium	ppm	ASTM D5185m		<1	<1	2
There is no indication of any contamination in the oil.	Fuel	le le	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.1	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624		5.3	7.7	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.0	19.0
	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
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	2	1	0
	Boron	ppm	ASTM D5185m		367	10	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		84	67	65
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		450	1040	975
	Calcium	ppm	ASTM D5185m		1397	1115	1049
	Phosphorus	ppm	ASTM D5185m		1016	1203	1021
	Zinc	ppm	ASTM D5185m		1170	1420	1335
	Sulfur	ppm	ASTM D5185m		3588	3718	3467
		Abs/.1mm	*ASTM D7414	>25	14.5	14.8	14.6
	Oxidation	AUS/. 1111111					
	Oxidation Base Number (BN)			725	8.3	7.2	9.5







Laboratory Sample No.

: WC0904537 Lab Number : 06148010 Unique Number: 10978088

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Apr 2024 **Tested** : 15 Apr 2024

Diagnosed : 15 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

F: x:

Test Package : FLEET Certificate L2367

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)