WEAR CONTAMINATION **FLUID CONDITION**

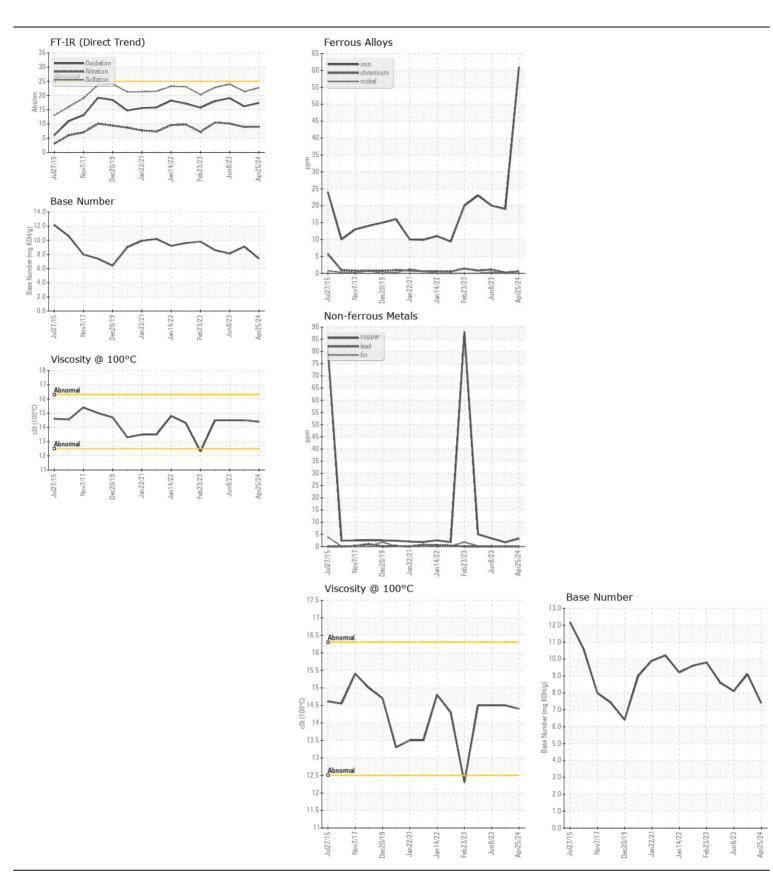
NORMAL NORMAL NORMAL

Machine Id

FREIGHTLINER 46010

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0928946	WC0842180	WC074238
	Sample Date		Client Info		25 Apr 2024	14 Nov 2023	08 Jun 202
	Machine Age	mls	Client Info		573160	550851	531894
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	> 200	61	19	20
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		15	4	7
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		3	2	3
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m	710	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	8	5	5
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	6	5	3
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.1	1	1.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.9	10.1
	Sulfation	Abs/.1mm	*ASTM D7415		22.7	21.4	24.0
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	<1	0	1
	Boron	ppm	ASTM D5185m		133	2	2
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		77	64	66
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		689	994	1053
	Calcium	ppm	ASTM D5185m		1278	1123	1384
	Phosphorus	ppm	ASTM D5185m		1076	1008	1084
	Zinc	ppm	ASTM D5185m		1302	1273	1389
	Sulfur	ppm	ASTM D5185m		3354	3663	3691
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.2	19.1
	Base Number (BN)	mg KOH/g	ASTM D2896		7.4	9.1	8.1
	Visc @ 100°C	cSt	ASTM D445		14.4	14.5	14.5







Certificate L2367

Laboratory Sample No.

: WC0928946 Lab Number : 06191631 Unique Number : 11048383 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 **Tested**

: 29 May 2024 Diagnosed : 29 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

* - 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)

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