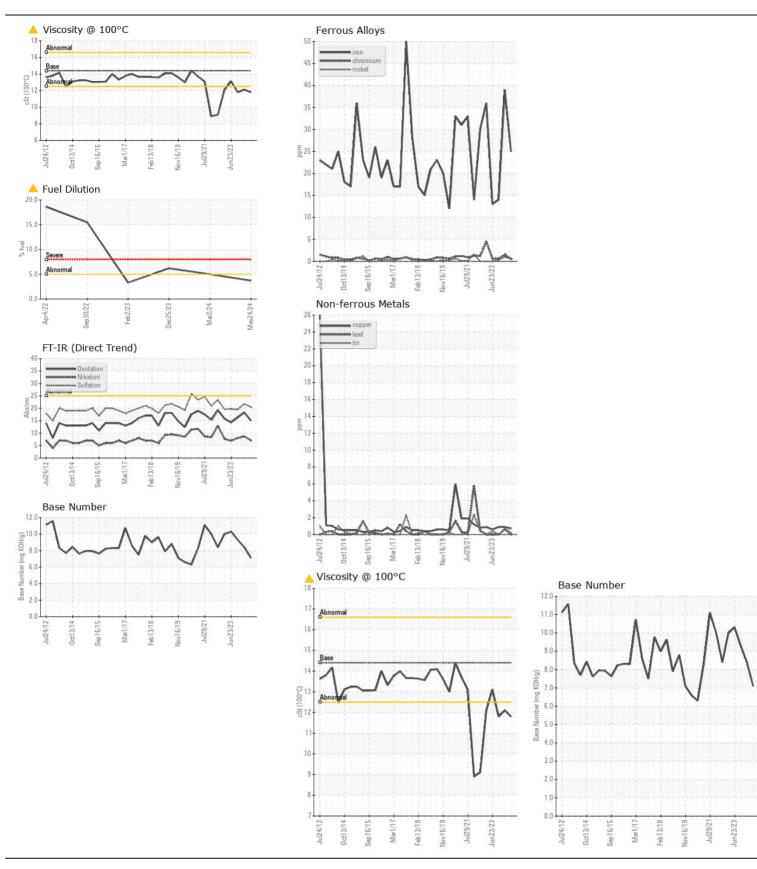
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL ABNORMAL

Machine Id

FREIGHTLINER 45388

Diesel Engine							
Fluid							
CHEVRON 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0879888	WC0879942	WC0845617
The oil change at the time of sampling has been noted. Resample at	Sample Date		Client Info		24 May 2024	02 Mar 2024	25 Dec 2023
the next service interval to monitor.	Machine Age	mls	Client Info		299702	297884	296488
	Oil Age	mls	Client Info		10000	0	10000
	Filter Age	mls	Client Info		10000	0	10000
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	∽ 80	25	39	14
WLAN	Chromium	ppm	ASTM D5185m		<1	2	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	1	<1
	Titanium	ppm	ASTM D5185m	72	<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	7	3
	Lead	ppm	ASTM D5185m		0	, <1	0
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm		>20	6	9	4
Light fuel dilution occurring.	Potassium	ppm	ASTM D5185m		8	14	6
Light rue: dilution occurring.	Fuel	%	ASTM D3524		4 3.7	<u></u> 5.0	△ 6.2
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method	-	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	8.7	8.0
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual		20.5 NONE	21.7	19.5 NONE
	Debris	scalar	*Visual	NONE	NONE	NONE NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>50	8	16	9
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		339	374	6
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition	Barium	ppm	ASTM D5185m		<1	<1	<1
of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		77	89	67
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		359	419	909
	Calcium	ppm	ASTM D5185m		1169	1243	1024
	Phosphorus	ppm	ASTM D5185m		946	985	1075
	Zinc	ppm	ASTM D5185m		1055	1133	1226
	Sulfur	ppm	ASTM D5185m	0.5	2687	3024	3165
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	18.3	16.3
	Base Number (BN)			111	7.1	8.4	9.3
	Visc @ 100°C	cSt	ASTM D445	14.4	11.8	<u> </u>	<u>▲</u> 11.8







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0879888 Lab Number : 06212909

Unique Number : 11085773

Received **Tested** Diagnosed

: 17 Jun 2024 : 20 Jun 2024 Test Package: FLEET (Additional Tests: PercentFuel)

: 20 Jun 2024 - Wes Davis

198 PARK PLAZA DRIVE WINSTON SALEM, NC US 27105

SALEM NATIONALEASE CORPORATION

Contact: Audrey Hopkins Audrey.Hopkins@salemcorp.com

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)

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