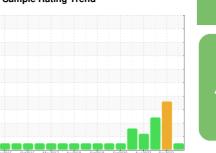


## **OIL ANALYSIS REPORT**

### Sample Rating Trend



NORMAL



# 2007 FREIGHTLINER L-78

Component

**Diesel Engine** 

SHELL ROTELLA T 15W40 (44 QTS)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

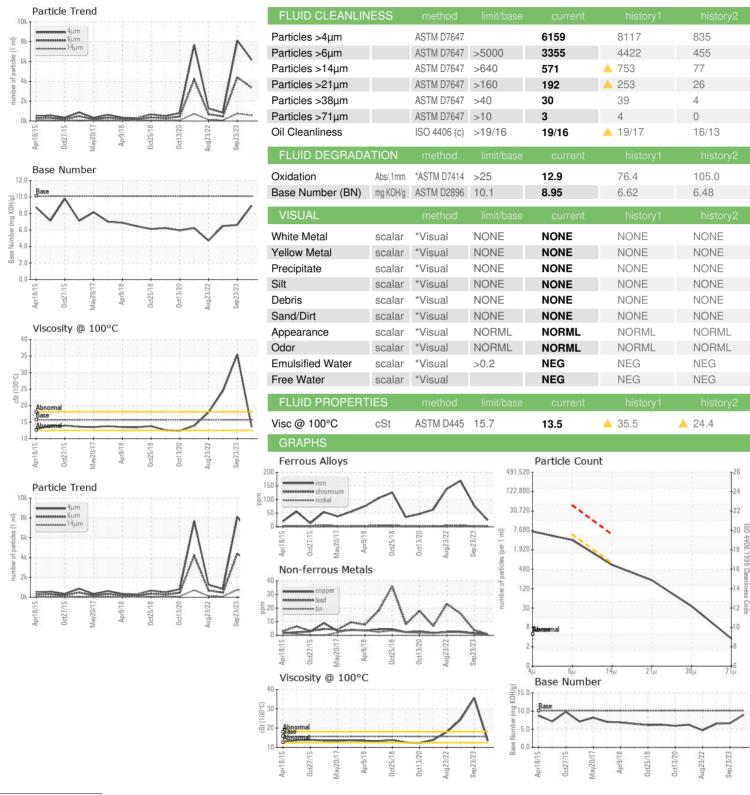
#### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Apr2015 Oct2	015 May2017 Apr2018	Oct2018 Oct2020 Aug2022	Sep2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0009559	KL0009558	KL0009556
Sample Date		Client Info		05 Oct 2023	23 Sep 2023	22 Jun 2023
Machine Age	mls	Client Info		90109	86671	52364
Oil Age	mls	Client Info		3438	34307	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	SEVERE	SEVERE
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	24	77	169
Chromium	ppm	ASTM D5185m	>10	2	2	4
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	0	4	1
Lead	ppm	ASTM D5185m	>30	<1	4	16
Copper	ppm	ASTM D5185m	>30	<1	2	3
Tin	ppm	ASTM D5185m	>4	<1	1	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	89	19	27
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	1.2	83	69	91
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m	24	371	292	318
Calcium	ppm	ASTM D5185m	2292	1799	1456	1773
Phosphorus	ppm	ASTM D5185m	1064	1111	840	937
Zinc	ppm	ASTM D5185m	1160	1315	1015	1109
Sulfur	ppm	ASTM D5185m	4996	4306	3491	3040
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	9	9	15
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.6	8.5	9.9
Nitration	Abs/cm	*ASTM D7624	>20	7.0	31.4	45.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	68.0	76.6



## OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

**Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KL0009559 : 05977781 : 10695076

: 12 Oct 2023 Received Diagnosed Diagnostician : Wes Davis

: 13 Oct 2023

Test Package : MOB 2 ( Additional Tests: PrtCount ) 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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