



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**FREIGHTLINER 17758**  
Component  
**Diesel Engine**  
Fluid  
**EXXON 15W40 (--- QTS)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

## WEAR

All component wear rates are normal.

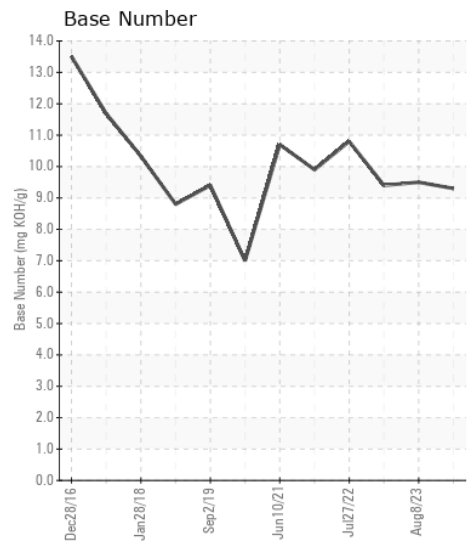
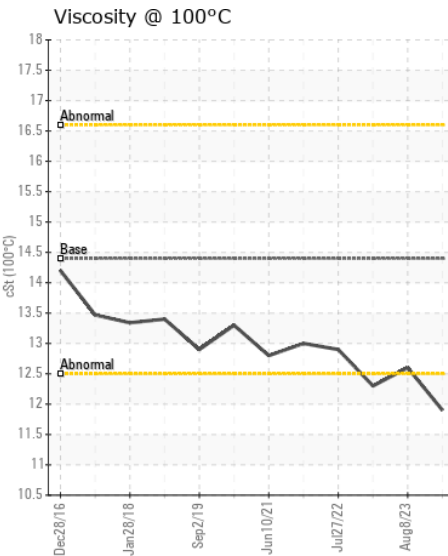
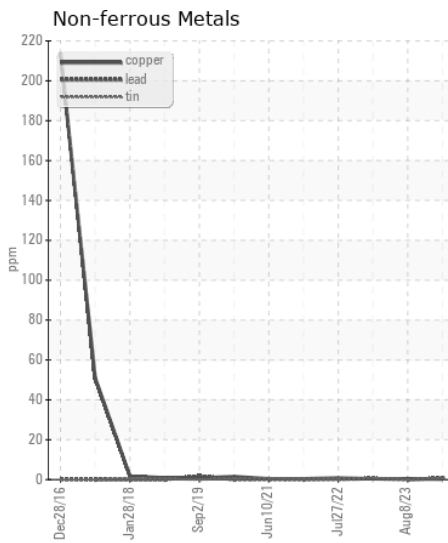
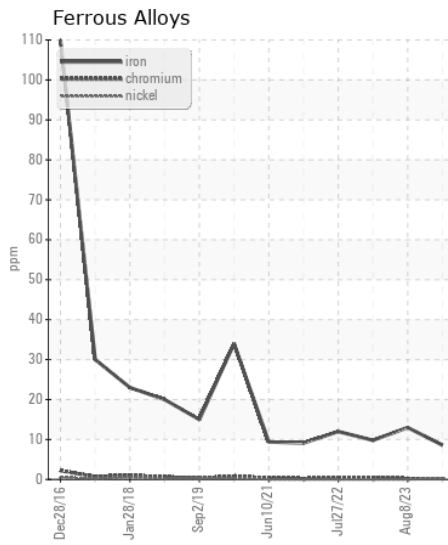
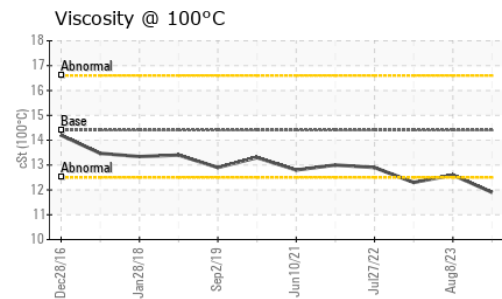
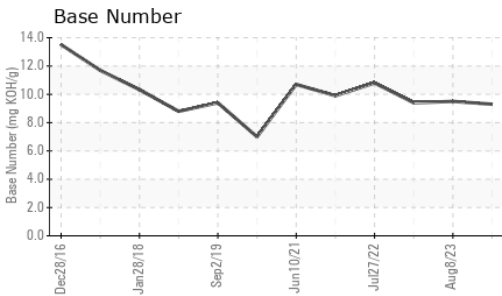
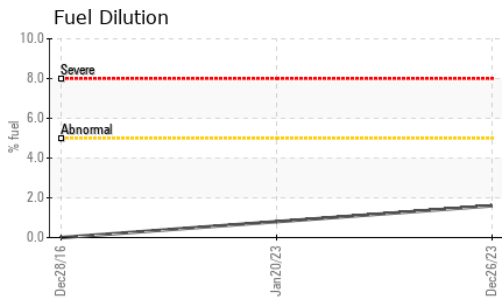
## CONTAMINATION

Light fuel dilution occurring. No other contaminants were detected in the oil.

## 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0885609</b>	WC0840115	WC0779983
Sample Date		Client Info		<b>26 Dec 2023</b>	08 Aug 2023	20 Jan 2023
Machine Age	mls	Client Info		<b>97775</b>	95061	89227
Oil Age	mls	Client Info		<b>2714</b>	5834	3569
Filter Age	mls	Client Info		<b>2714</b>	5834	3569
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>80	<b>9</b>	13	10
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>3</b>	4	4
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>150	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	<b>4</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	5
Fuel	%	ASTM D3524	>5	<b>1.6</b>	<1.0	0.8
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.9</b>	5.6	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.8</b>	18.0	18.1
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>2</b>	2	<1
Boron	ppm	ASTM D5185m		<b>13</b>	10	10
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>68</b>	66	63
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>962</b>	996	879
Calcium	ppm	ASTM D5185m		<b>1138</b>	1164	1100
Phosphorus	ppm	ASTM D5185m		<b>1148</b>	1065	983
Zinc	ppm	ASTM D5185m		<b>1348</b>	1255	1177
Sulfur	ppm	ASTM D5185m		<b>3601</b>	3969	3763
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.5</b>	13.2	13.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.3</b>	9.5	9.4
Visc @ 100°C	cSt	ASTM D445	14.4	<b>11.9</b>	12.6	▲ 12.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0885609 **Received** : 08 Jan 2024  
**Lab Number** : 06054634 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10820583 **Diagnostician** : Wes Davis  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

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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)