



# OIL ANALYSIS REPORT

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

Machine Id  
**FREIGHTLINER 30400**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0929017</b>	WC0795619	WC0794556
Sample Date		Client Info		<b>08 Apr 2024</b>	26 Jan 2024	31 May 2023
Machine Age	mls	Client Info		<b>218667</b>	210524	170233
Oil Age	mls	Client Info		<b>0</b>	25000	25000
Filter Age	mls	Client Info		<b>0</b>	25000	25000
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>18</b>	56	9
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	17	5
Lead	ppm	ASTM D5185m	>40	<b>5</b>	26	1
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	3	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

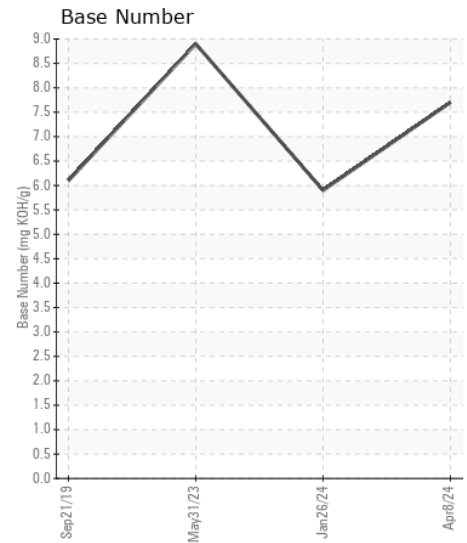
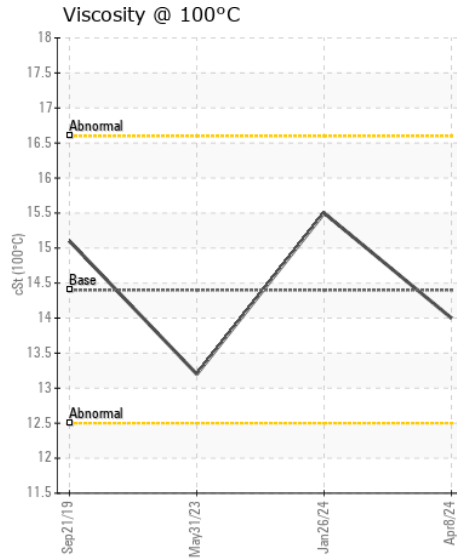
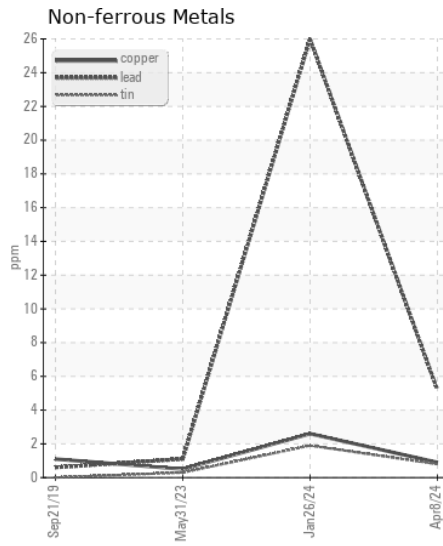
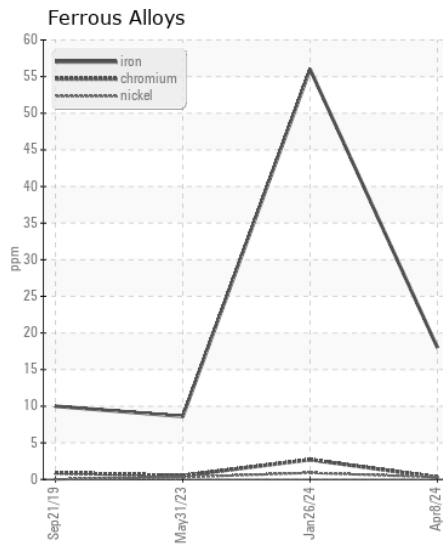
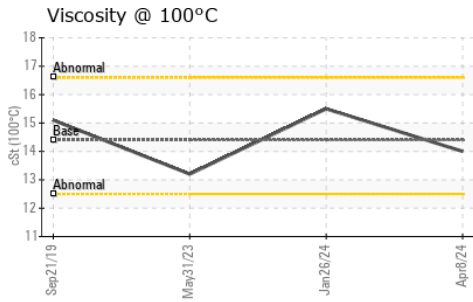
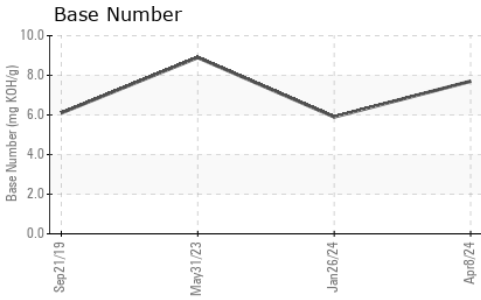
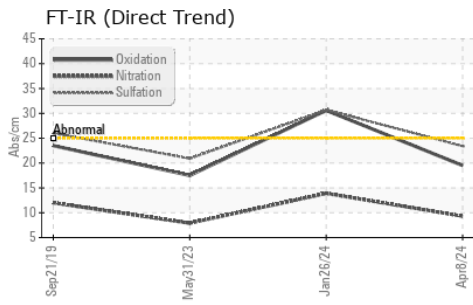
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	9	5
Potassium	ppm	ASTM D5185m	>20	<b>14</b>	34	14
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>0.3</b>	0.7	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.3</b>	13.9	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.4</b>	30.7	20.9
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

## 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.

Sodium	ppm	ASTM D5185m	>50	<b>2</b>	0	3
Boron	ppm	ASTM D5185m		<b>236</b>	56	7
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>88</b>	92	97
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>700</b>	1161	1378
Calcium	ppm	ASTM D5185m		<b>1394</b>	1329	1602
Phosphorus	ppm	ASTM D5185m		<b>1102</b>	1097	1462
Zinc	ppm	ASTM D5185m		<b>1401</b>	1593	1827
Sulfur	ppm	ASTM D5185m		<b>3823</b>	3211	5561
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.5</b>	30.6	17.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.7</b>	5.9	8.9
Visc @ 100°C	cSt	ASTM D445	14.4	<b>14.0</b>	15.5	13.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0929017  
**Lab Number** : 06190118  
**Unique Number** : 11046870  
**Test Package** : FLEET

**SALEM NATIONALEASE CORPORATION**  
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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)