



# OIL ANALYSIS REPORT

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

Machine Id  
**2004 FREIGHTLINER 309H**  
 Component  
**Hydraulic System**  
 Fluid  
**CHEVRON 1000 THF (60 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0013998</b>	KL0013266	KL0011841
Sample Date		Client Info		<b>26 Jan 2024</b>	11 Oct 2023	28 Mar 2023
Machine Age	days	Client Info		<b>53175</b>	8092	46554
Oil Age	days	Client Info		<b>0</b>	0	0
Filter Age	days	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>8	<b>1</b>	0	0
Lead	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	>2	<b>0</b>	0	0
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

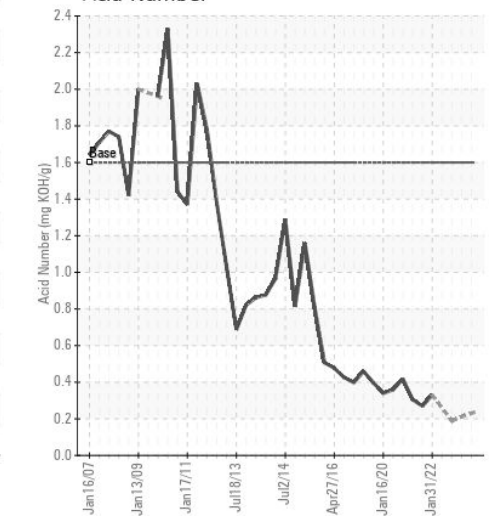
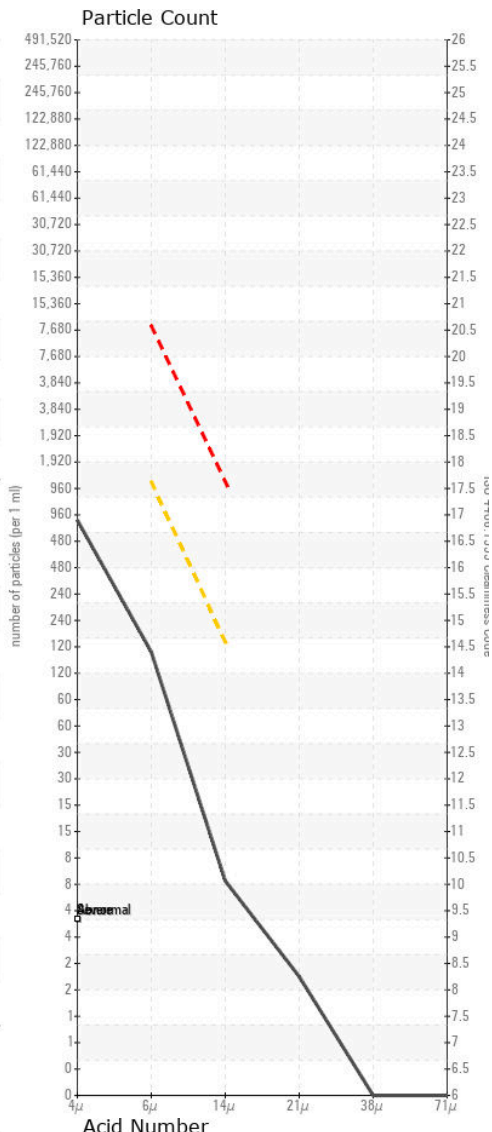
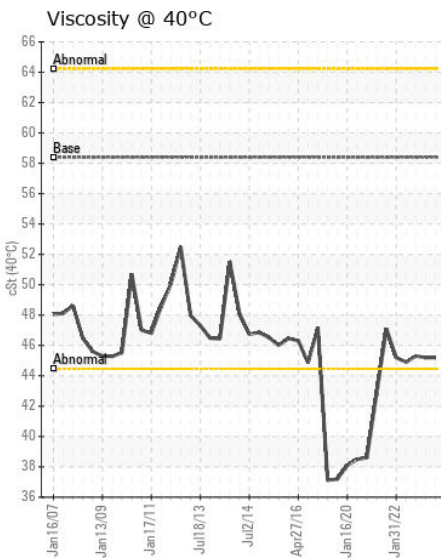
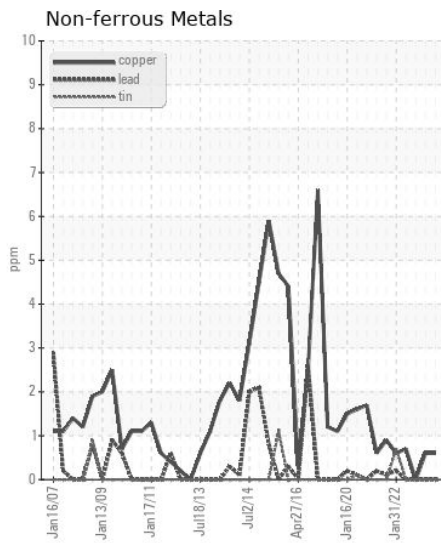
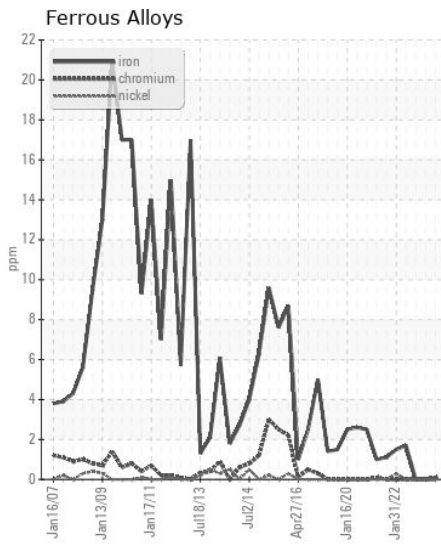
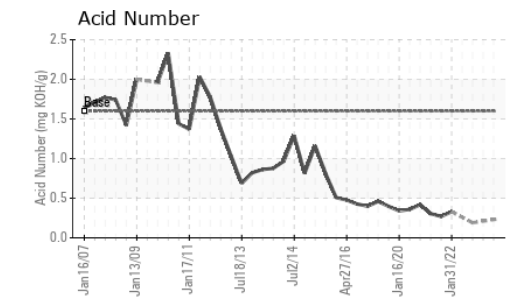
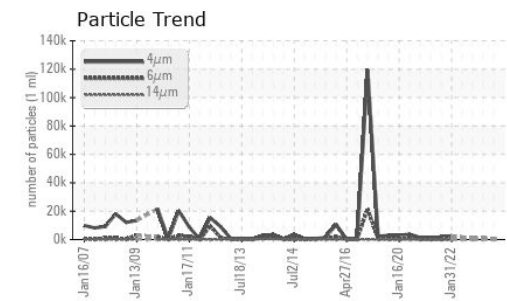
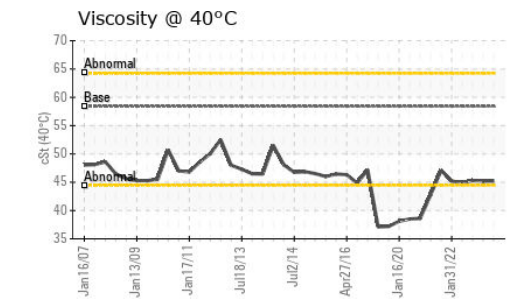
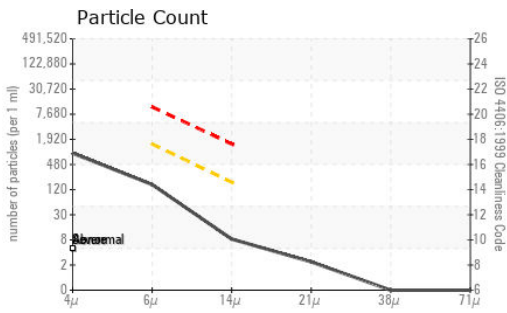
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>785</b>	---	1120
Particles >6µm		ASTM D7647	>1300	<b>140</b>	---	189
Particles >14µm		ASTM D7647	>160	<b>7</b>	---	8
Particles >21µm		ASTM D7647	>40	<b>2</b>	---	1
Particles >38µm		ASTM D7647	>10	<b>0</b>	---	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	0
Oil Cleanliness		ISO 4406 (c)	>-/17/14	<b>17/14/10</b>	---	17/15/10
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	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	<1	0
Boron	ppm	ASTM D5185m	10	<b>&lt;1</b>	0	0
Barium	ppm	ASTM D5185m		<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	20	<b>8</b>	7	9
Calcium	ppm	ASTM D5185m	3200	<b>70</b>	83	85
Phosphorus	ppm	ASTM D5185m	1100	<b>275</b>	317	341
Zinc	ppm	ASTM D5185m	1400	<b>353</b>	435	437
Sulfur	ppm	ASTM D5185m	3600	<b>794</b>	959	705
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	<b>0.23</b>	---	0.19
Visc @ 40°C	cSt	ASTM D445	58.4	<b>45.2</b>	45.2	45.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : KL0013998

**Lab Number** : 06089530

**Unique Number** : 10876975

**Test Package** : MOB 2

**Received** : 14 Feb 2024

**Tested** : 15 Feb 2024

**Diagnosed** : 16 Feb 2024 - Don Baldrige

**CITY OF ARTESIA**

P.O. BOX 1310

ARTESIA, NM

US 88211

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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)