



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 305H

Component
Hydraulic System

Fluid
CHEVRON 1000 THF (60 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013995	KL0012893	KL0012596
Sample Date		Client Info		26 Jan 2024	11 Oct 2023	12 Jul 2023
Machine Age	hrs	Client Info		0	0	710
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>40	6	6	8
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>8	1	0	<1
Lead	ppm	ASTM D5185m	>5	0	0	<1
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>2	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

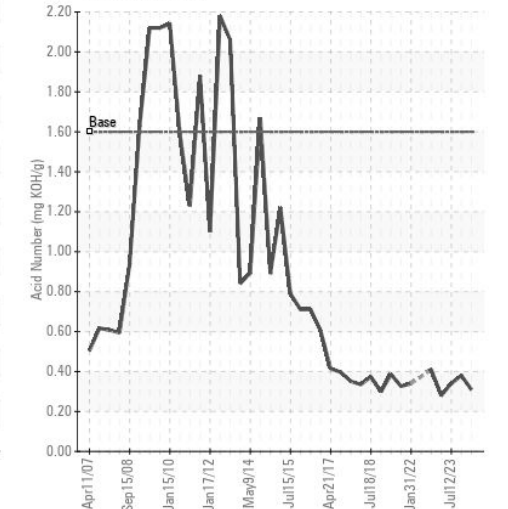
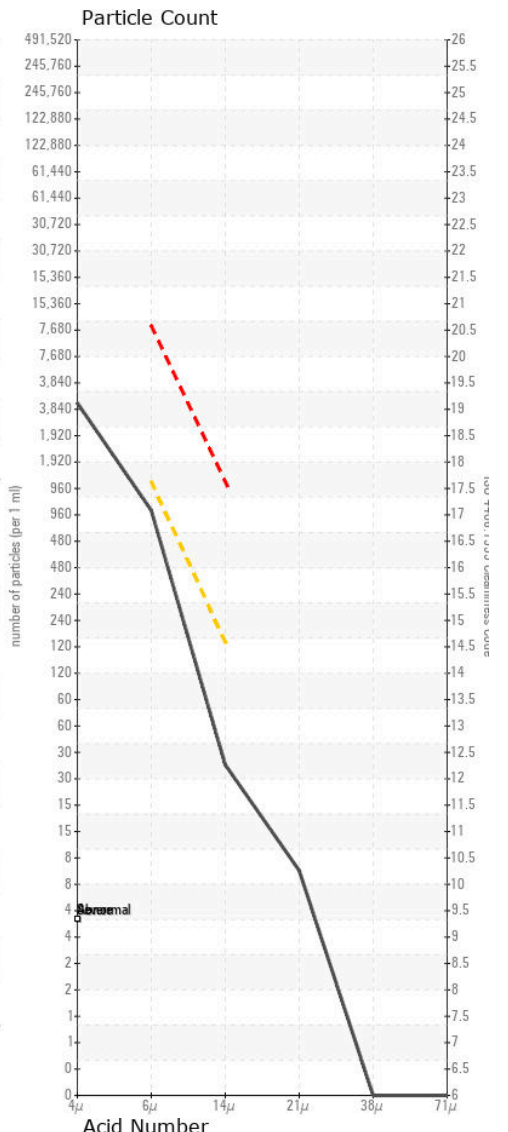
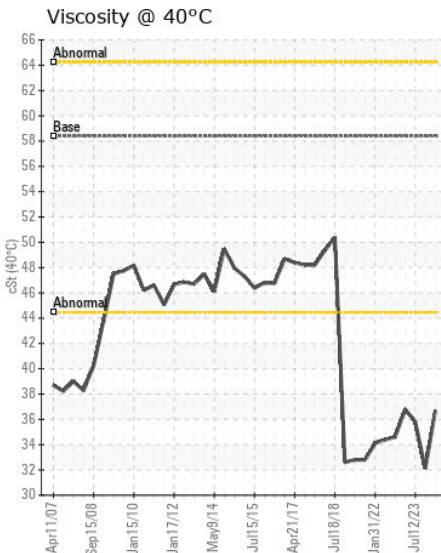
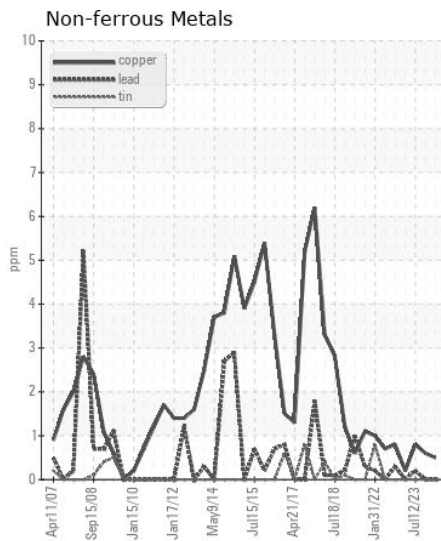
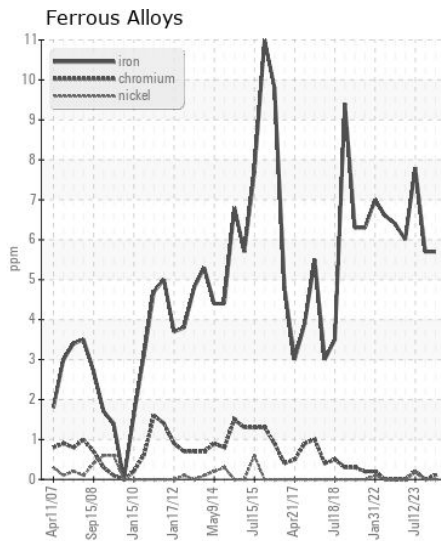
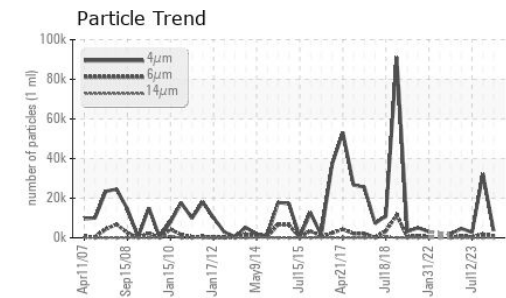
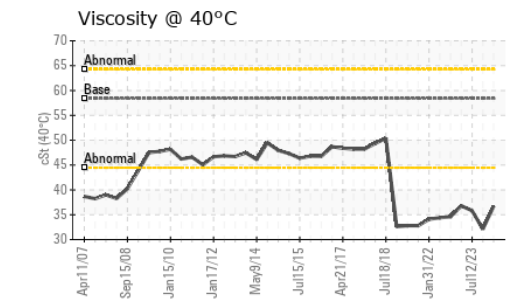
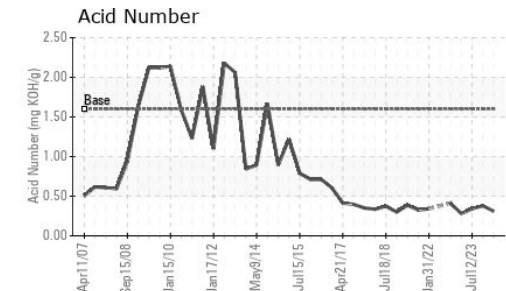
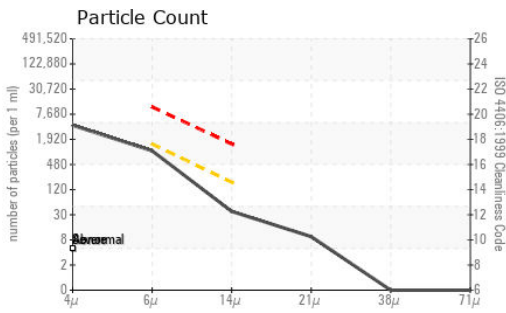
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	2	<1	3
Potassium	ppm	ASTM D5185m	>20	<1	0	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		3642	32262	2813
Particles >6µm		ASTM D7647	>1300	893	▲ 1777	408
Particles >14µm		ASTM D7647	>160	32	91	19
Particles >21µm		ASTM D7647	>40	8	21	5
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>17/14	17/12	▲ 18/14	16/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	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		0	1	0
Boron	ppm	ASTM D5185m	10	0	0	0
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	20	8	0	11
Calcium	ppm	ASTM D5185m	3200	50	46	61
Phosphorus	ppm	ASTM D5185m	1100	296	307	356
Zinc	ppm	ASTM D5185m	1400	366	421	465
Sulfur	ppm	ASTM D5185m	3600	895	780	1096
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	0.31	0.38	0.34
Visc @ 40°C	cSt	ASTM D445	58.4	36.7	▲ 32.1	▲ 35.8



Certificate L2367

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

Sample No. : KL0013995

Lab Number : 06089533

Unique Number : 10876978

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)