



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 10461
Component
Diesel Engine
Fluid
CHEVRON 15W40 (48 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0936327	WC0903470	WC0869167
Sample Date		Client Info		28 May 2024	01 Mar 2024	21 Dec 2023
Machine Age	mls	Client Info		583151	549730	524104
Oil Age	mls	Client Info		25000	0	0
Filter Age	mls	Client Info		25000	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	92	85	30
Chromium	ppm	ASTM D5185m	>6	5	5	2
Nickel	ppm	ASTM D5185m	>3	2	2	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>50	24	27	14
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	7	6	2
Tin	ppm	ASTM D5185m	>6	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

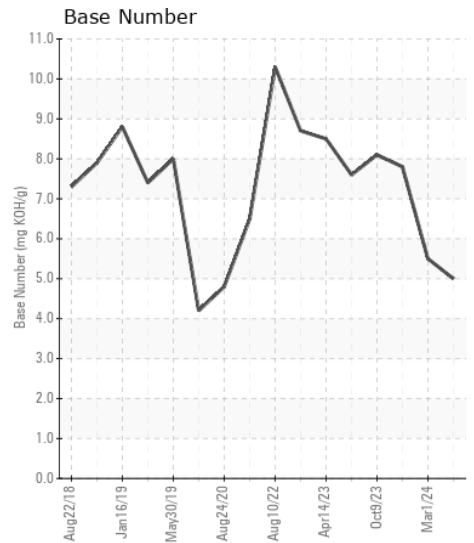
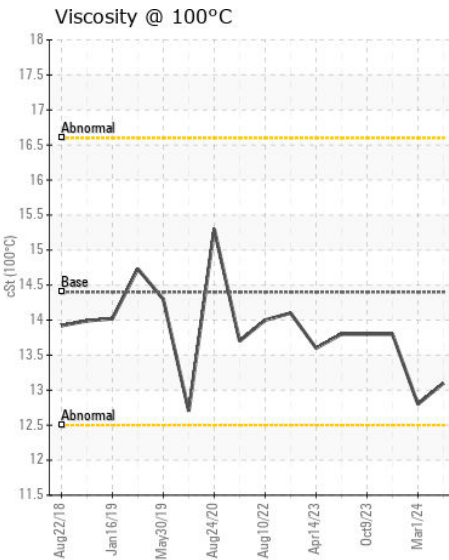
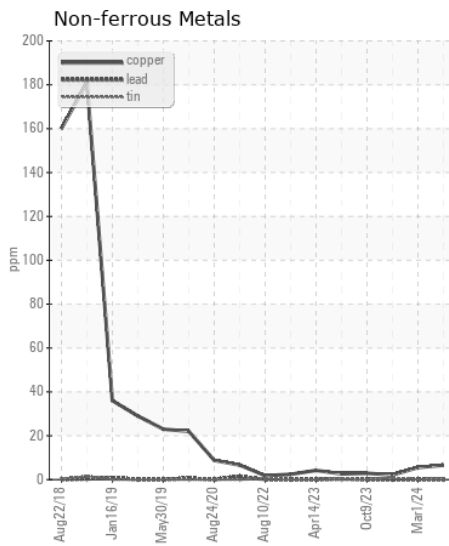
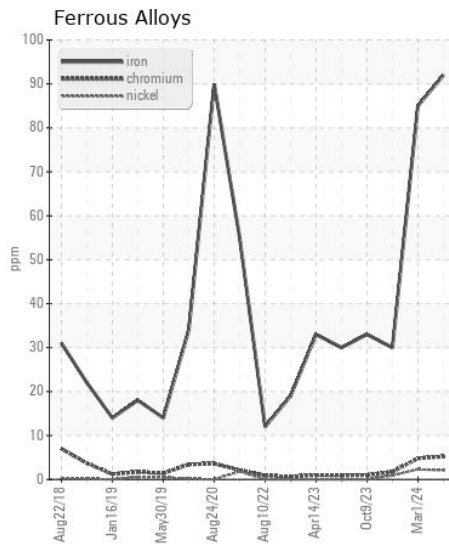
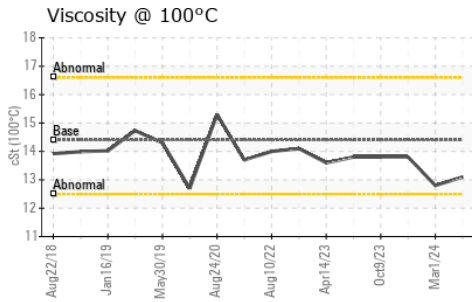
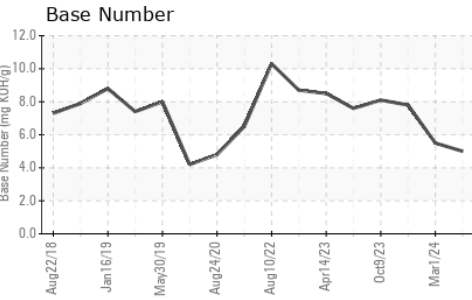
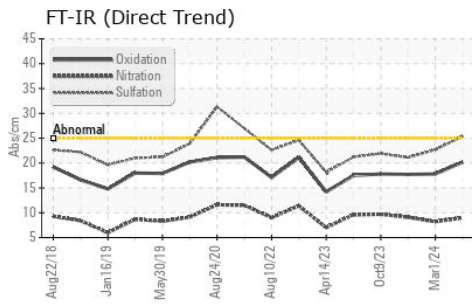
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	13	7	5
Potassium	ppm	ASTM D5185m	>20	4	5	3
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.2	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	22.7	21.1
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	>0.2	NEG	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	2	2	<1
Boron	ppm	ASTM D5185m		53	108	26
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		127	105	66
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		523	545	870
Calcium	ppm	ASTM D5185m		1805	1471	1099
Phosphorus	ppm	ASTM D5185m		1244	1010	1025
Zinc	ppm	ASTM D5185m		1603	1245	1258
Sulfur	ppm	ASTM D5185m		3544	3561	2936
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	17.8	17.7
Base Number (BN)	mg KOH/g	ASTM D2896		5.0	5.5	7.8
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	12.8	13.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936327
Lab Number : 06216475
Unique Number : 11089339
Test Package : FLEET
Received : 20 Jun 2024
Tested : 22 Jun 2024
Diagnosed : 22 Jun 2024 - Wes Davis

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Certificate L2367
 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)