



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 45379
Component
Front Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (20 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0913854	WC0635516	WC0531750
Sample Date		Client Info		19 Mar 2024	05 Jan 2022	14 Dec 2020
Machine Age	mls	Client Info		325794	285224	268260
Oil Age	mls	Client Info		3699	0	0
Filter Age	mls	Client Info		3699	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	59	60	50
Chromium	ppm	ASTM D5185m	>20	6	1	1
Nickel	ppm	ASTM D5185m	>2	2	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	8	8	▲ 29
Lead	ppm	ASTM D5185m	>40	1	<1	0
Copper	ppm	ASTM D5185m	>330	3	2	4
Tin	ppm	ASTM D5185m	>15	2	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

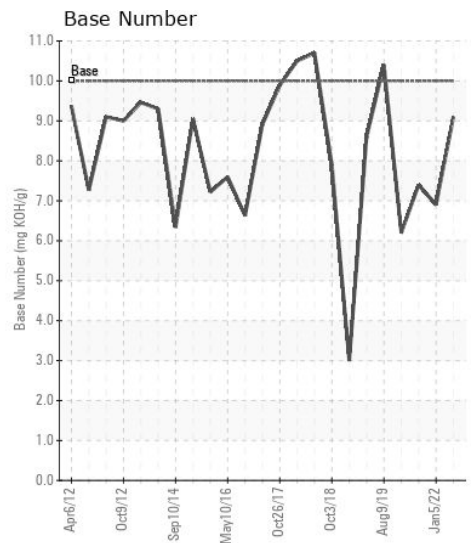
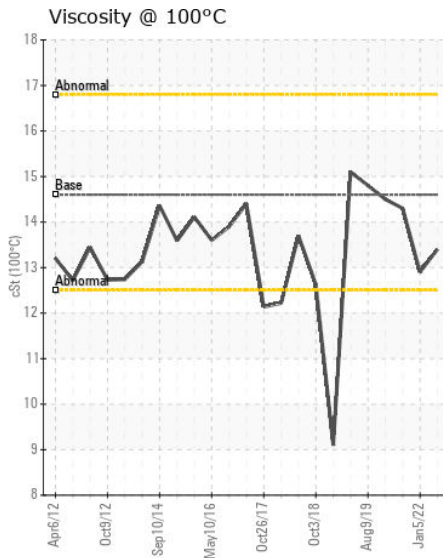
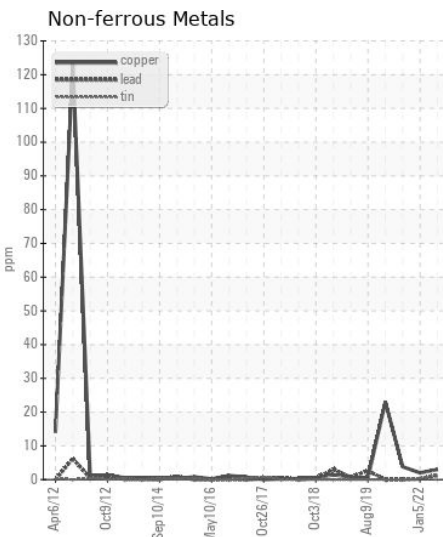
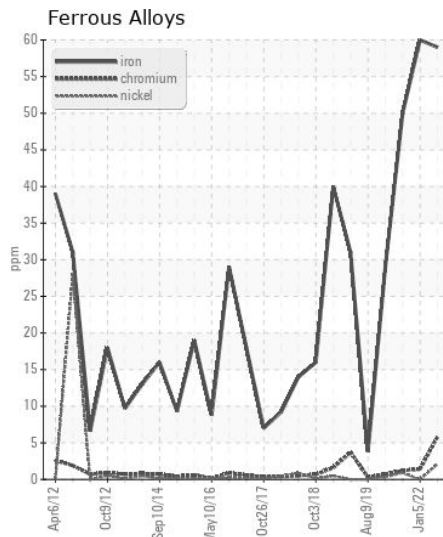
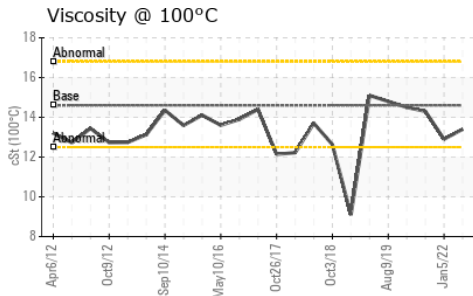
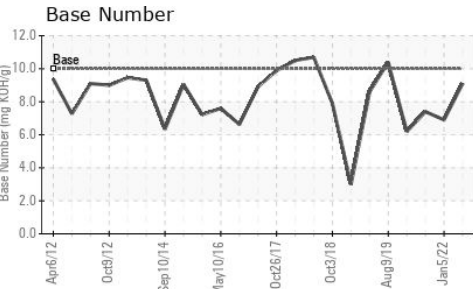
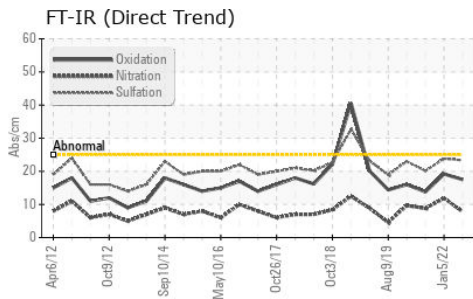
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	8	7
Potassium	ppm	ASTM D5185m	>20	27	▲ 132	20
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	>6	0.2	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.8	11.9	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	23.8	20.1
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		29	▲ 132	35
Boron	ppm	ASTM D5185m		360	6	10
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		128	71	3
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		684	947	22
Calcium	ppm	ASTM D5185m		1562	1204	2629
Phosphorus	ppm	ASTM D5185m	760	859	1025	885
Zinc	ppm	ASTM D5185m	800	939	1288	1069
Sulfur	ppm	ASTM D5185m	3000	3132	2387	2962
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	19.2	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.1	6.9	7.4
Visc @ 100°C	cSt	ASTM D445	14.6	13.4	12.9	14.3



Certificate L2367

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

Sample No. : WC0913854

Lab Number : 06152545

Unique Number : 10982623

Test Package : FLEET

Received : 17 Apr 2024

Tested : 18 Apr 2024

Diagnosed : 22 Apr 2024 - Don Baldrige

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE

WINSTON SALEM, NC

US 27105

Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com

T: (336)767-9642

F: x:

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)