



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 255483
Component
Diesel Engine
Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (--- QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0881763	WC0861066	WC0774519
Sample Date		Client Info		25 Mar 2024	08 Oct 2023	07 Jun 2023
Machine Age	mls	Client Info		112106	224771	0
Oil Age	mls	Client Info		13468	0	0
Filter Age	mls	Client Info		13468	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				MARGINAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	11	23	11
Chromium	ppm	ASTM D5185m	>5	0	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	2	<1
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m	>150	<1	2	<1
Tin	ppm	ASTM D5185m	>5	0	<1	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

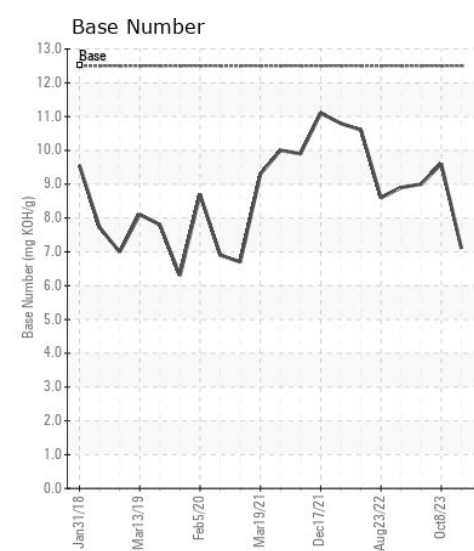
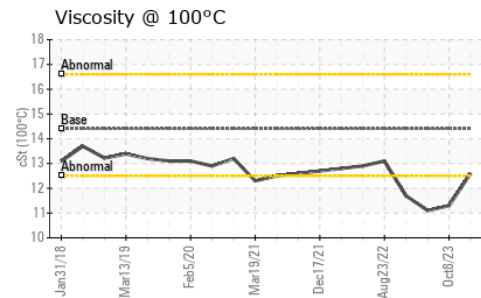
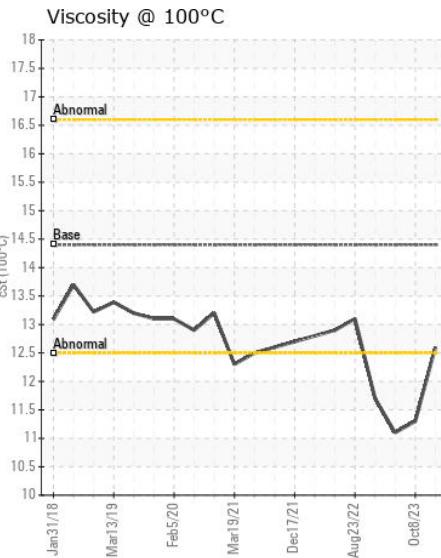
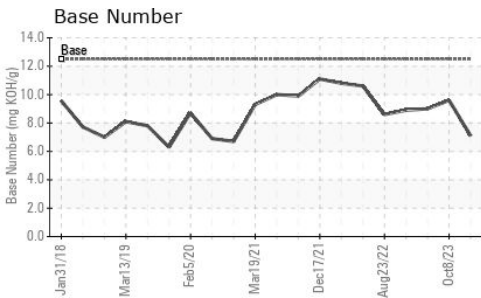
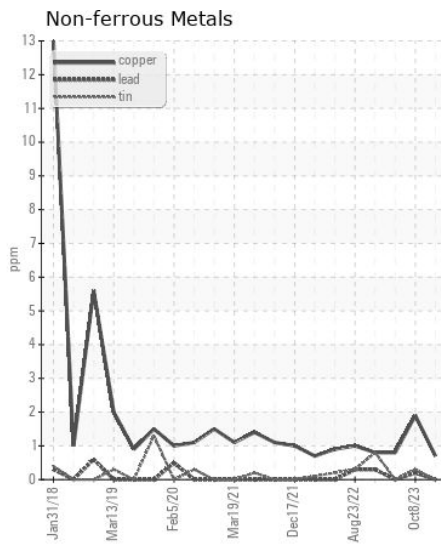
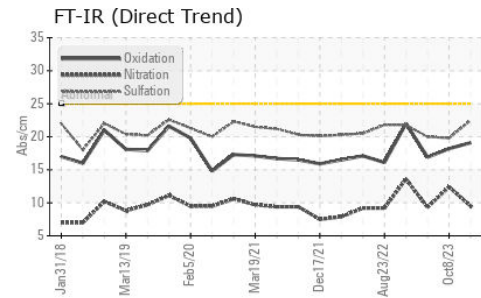
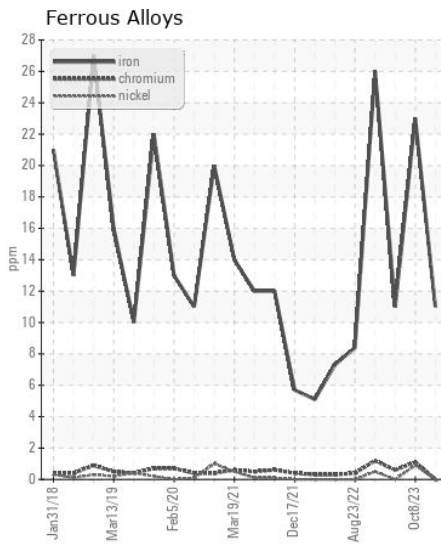
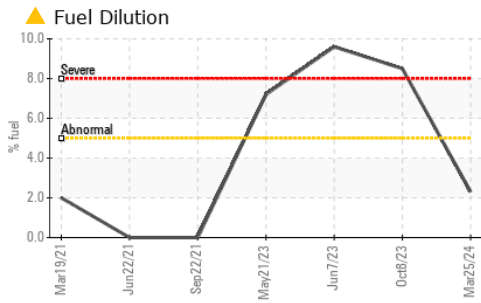
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>20	5	8	5
Potassium	ppm	ASTM D5185m	>20	0	4	<1
Fuel	%	ASTM D3524	>5	▲ 2.3	▲ 8.5	▲ 9.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.5	12.4	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	19.8	20.0
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		1	0	<1
Boron	ppm	ASTM D5185m	151	157	5	4
Barium	ppm	ASTM D5185m	0.4	0	1	0
Molybdenum	ppm	ASTM D5185m	250	82	56	56
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	0	679	823	883
Calcium	ppm	ASTM D5185m	2046	1334	▲ 986	1036
Phosphorus	ppm	ASTM D5185m	1043	1087	896	911
Zinc	ppm	ASTM D5185m	943	1302	1071	1143
Sulfur	ppm	ASTM D5185m	5012	3807	3227	3695
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	18.2	16.9
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	7.1	9.6	9.0
Visc @ 100°C	cSt	ASTM D445	14.4	12.6	▲ 11.3	▲ 11.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0881763 **Received** : 24 Apr 2024
Lab Number : 06159740 **Tested** : 29 Apr 2024
Unique Number : 10995163 **Diagnosed** : 29 Apr 2024 - Wes Davis
Test Package : FLEET (Additional Tests: PercentFuel)

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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)