



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 763
Component
Upper Diesel Engine
Fluid
CASTROL TECTION EXTRA SAE 15W-40 (38 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0781412	WC0526822	WC111985
Sample Date		Client Info		05 Jun 2024	27 Apr 2022	11 May 2018
Machine Age	kms	Client Info		1377041	1323405	1270192
Oil Age	kms	Client Info		53636	53213	21162
Filter Age	kms	Client Info		53636	53213	21162
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	20	16	23
Chromium	ppm	ASTM D5185(m)	>10	<1	2	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	2	3	7
Lead	ppm	ASTM D5185(m)	>30	<1	1	9
Copper	ppm	ASTM D5185(m)	>30	1	2	2
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

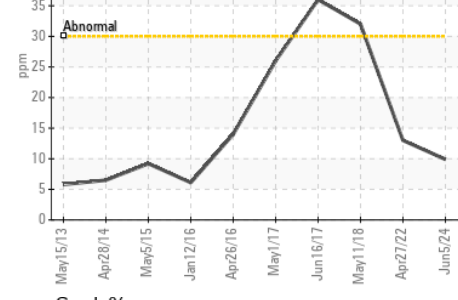
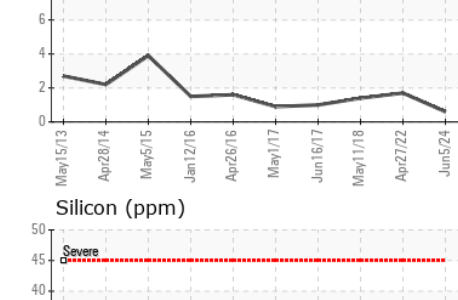
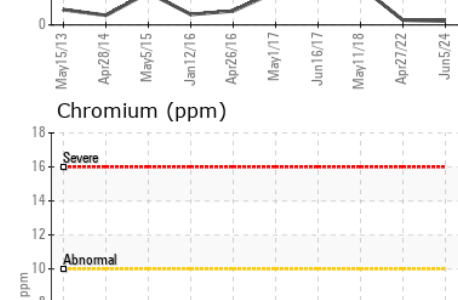
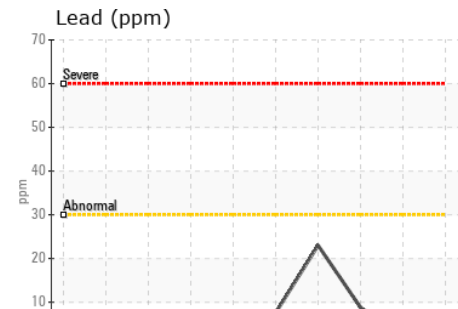
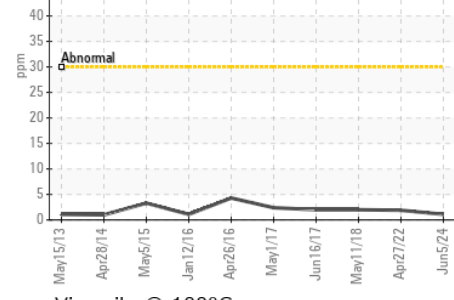
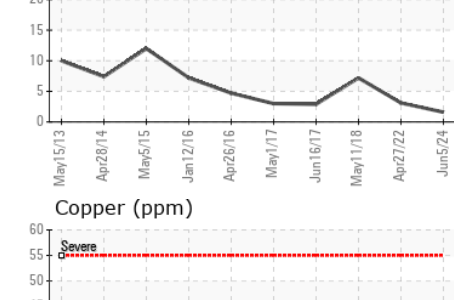
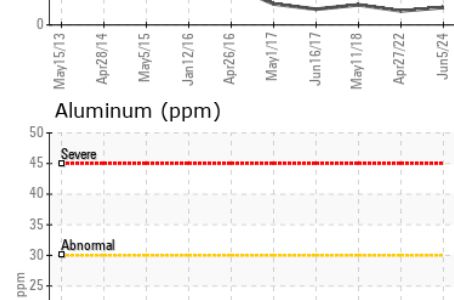
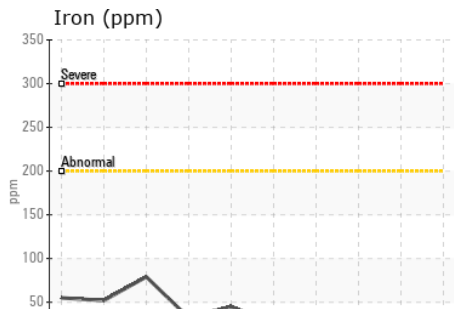
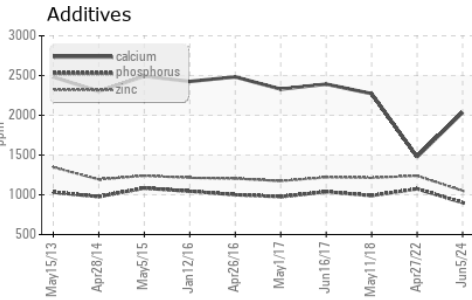
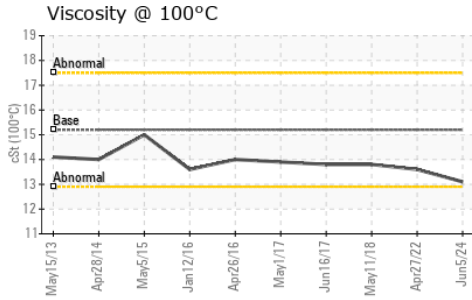
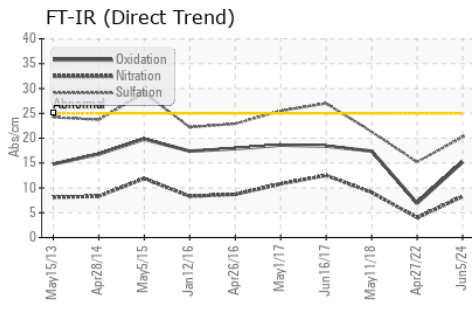
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	10	13	▲ 32
Potassium	ppm	ASTM D5185(m)	>20	4	4	▲ 55
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	▲ 0.12
Soot %	%	ASTM D7844*	>3	0.1	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.3	4.0	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	15.2	21.3
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		13	19	● 775
Boron	ppm	ASTM D5185(m)	30	29	6	28
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		19	65	24
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	110	188	537	52
Calcium	ppm	ASTM D5185(m)	2740	2036	1477	2272
Phosphorus	ppm	ASTM D5185(m)	1240	902	1075	989
Zinc	ppm	ASTM D5185(m)	1350	1051	1239	1213
Sulfur	ppm	ASTM D5185(m)	3520	2750	2861	3481
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.2	6.9	17.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.2	13.1	13.6	13.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0781412
Lab Number : 02641929
Unique Number : 5799468
Test Package : MOB 1
Received : 14 Jun 2024
Tested : 14 Jun 2024
Diagnosed : 14 Jun 2024 - Wes Davis

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.