



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
City of Mount Pearl
Machine Id
FREIGHTLINER 21-19D
Component
Diesel Engine
Fluid
SAE 15W40 (--- GAL)

RECOMMENDATION

Please note that all wear metal and contaminant levels are being considered accumulative. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000728	---	---
Sample Date		Client Info		17 Jun 2024	---	---
Machine Age	hrs	Client Info		3217	---	---
Oil Age	hrs	Client Info		1500	---	---
Filter Age	hrs	Client Info		1500	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184*	>65	0	---	---
Iron	ppm	ASTM D5185(m)	>80	99	---	---
Chromium	ppm	ASTM D5185(m)	>5	3	---	---
Nickel	ppm	ASTM D5185(m)	>2	1	---	---
Titanium	ppm	ASTM D5185(m)		<1	---	---
Silver	ppm	ASTM D5185(m)	>3	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>30	27	---	---
Lead	ppm	ASTM D5185(m)	>30	2	---	---
Copper	ppm	ASTM D5185(m)	>150	64	---	---
Tin	ppm	ASTM D5185(m)	>5	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

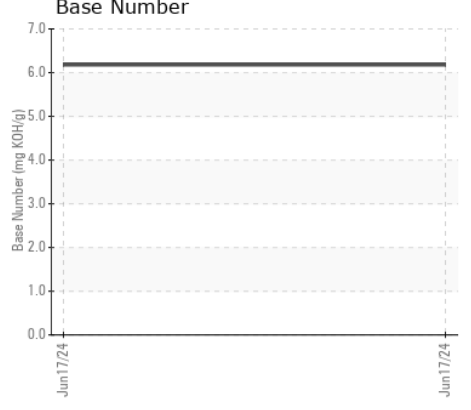
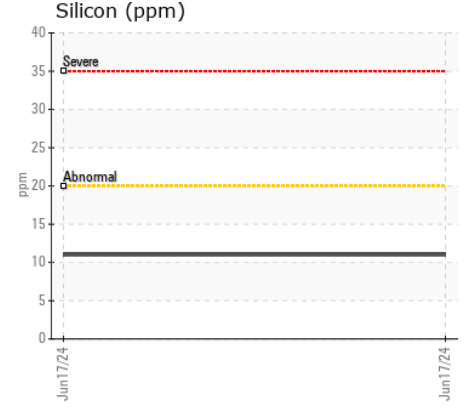
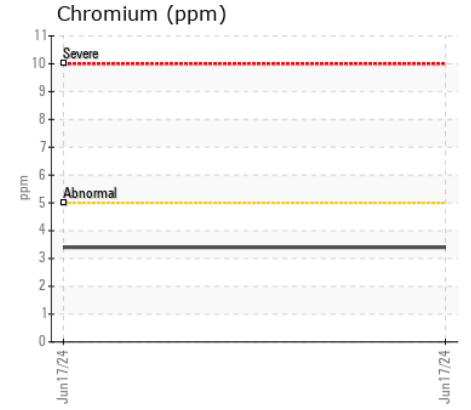
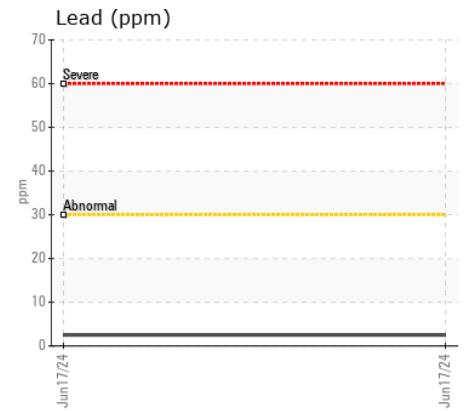
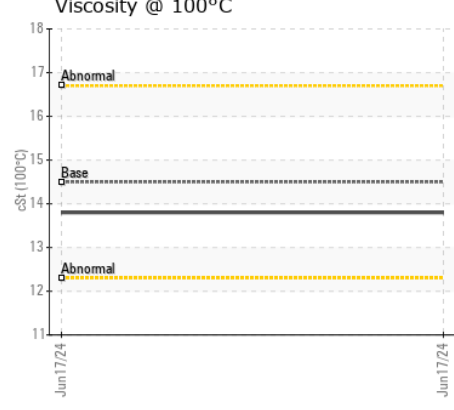
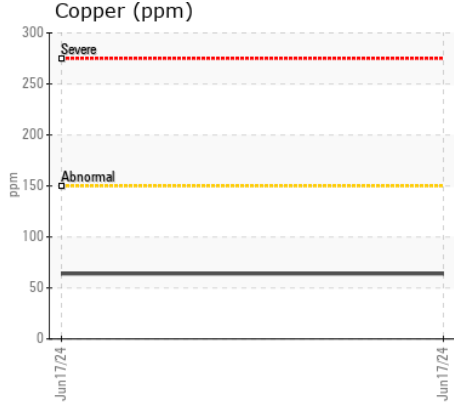
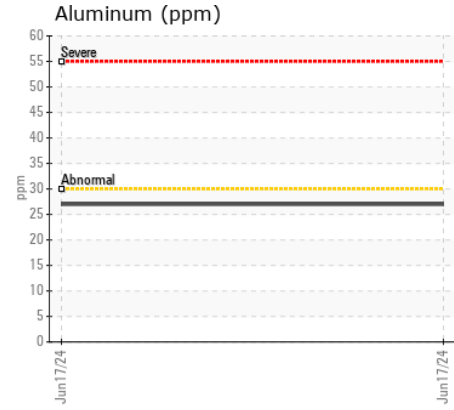
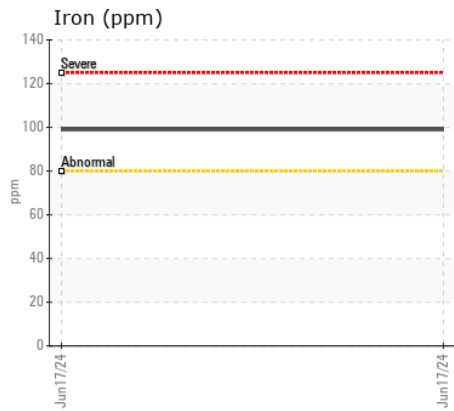
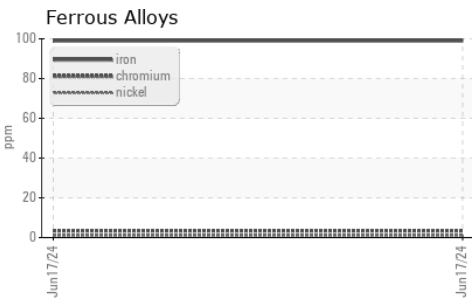
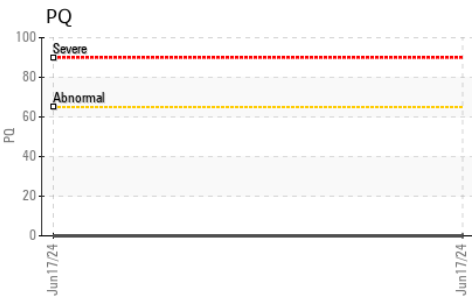
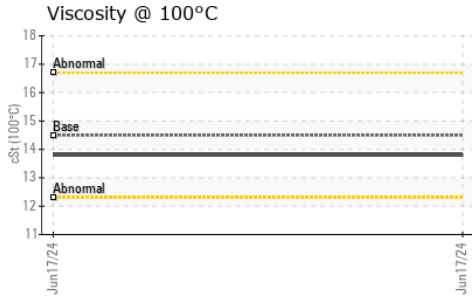
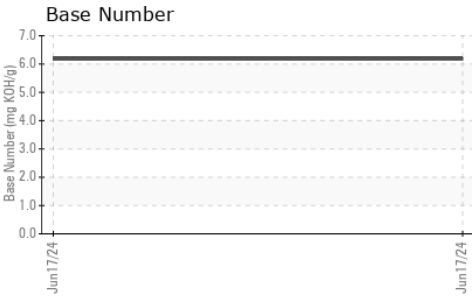
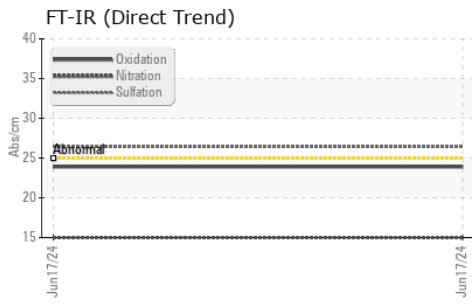
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	11	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	1.1	---	---
Nitration	Abs/cm	ASTM D7624*	>20	15.0	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.4	---	---
Emulsified Water	scalar	Visual*	>0.2	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 D5185(m)	>57	13	---	---
Boron	ppm	ASTM D5185(m)		<1	---	---
Barium	ppm	ASTM D5185(m)		<1	---	---
Molybdenum	ppm	ASTM D5185(m)		61	---	---
Manganese	ppm	ASTM D5185(m)		2	---	---
Magnesium	ppm	ASTM D5185(m)		969	---	---
Calcium	ppm	ASTM D5185(m)		1056	---	---
Phosphorus	ppm	ASTM D5185(m)		881	---	---
Zinc	ppm	ASTM D5185(m)		1194	---	---
Sulfur	ppm	ASTM D5185(m)		2000	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.9	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		6.18	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	13.8	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000728
Lab Number : 02644137
Unique Number : 5801676
Test Package : MOB 2 (Additional Tests: PQ)

Oil Filtration Solutions Ltd.
 PO BOX 16125
 CONCEPTION BAY SOUTH, NL
 CA A1X 2E2
 Contact: BILL BUTLER
 BBUTLER@OILFILTRATIONSOLUTIONS.COM
 T: (709)834-8433
 F: (709)834-8435

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.