



OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
City of Mount Pearl
 Machine Id
FREIGHTLINER 21-20D
 Component
Diesel Engine
 Fluid
SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation
 Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

Contamination
 There is no indication of any contamination in the oil.

Fluid Condition
 The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		OF0000838	---	---
Sample Date	Client Info		17 Jun 2024	---	---
Machine Age	hrs Client Info		2314	---	---
Oil Age	hrs Client Info		1500	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m)	>90	58	---	---
Chromium	ppm ASTM D5185(m)	>20	2	---	---
Nickel	ppm ASTM D5185(m)	>2	<1	---	---
Titanium	ppm ASTM D5185(m)	>2	0	---	---
Silver	ppm ASTM D5185(m)	>2	<1	---	---
Aluminum	ppm ASTM D5185(m)	>20	11	---	---
Lead	ppm ASTM D5185(m)	>40	3	---	---
Copper	ppm ASTM D5185(m)	>330	103	---	---
Tin	ppm ASTM D5185(m)	>15	<1	---	---
Antimony	ppm ASTM D5185(m)		0	---	---
Vanadium	ppm ASTM D5185(m)		0	---	---
Beryllium	ppm ASTM D5185(m)		0	---	---
Cadmium	ppm ASTM D5185(m)		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)		1	---	---
Barium	ppm ASTM D5185(m)		1	---	---
Molybdenum	ppm ASTM D5185(m)		58	---	---
Manganese	ppm ASTM D5185(m)		1	---	---
Magnesium	ppm ASTM D5185(m)		901	---	---
Calcium	ppm ASTM D5185(m)		1025	---	---
Phosphorus	ppm ASTM D5185(m)		762	---	---
Zinc	ppm ASTM D5185(m)		1137	---	---
Sulfur	ppm ASTM D5185(m)		1956	---	---
Lithium	ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

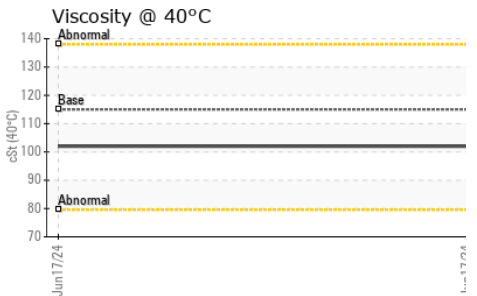
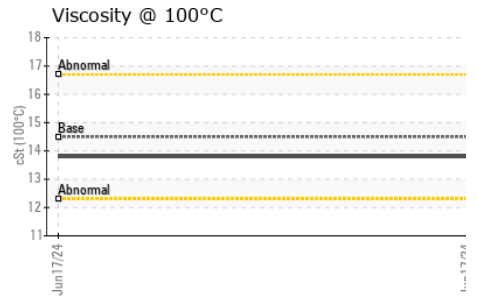
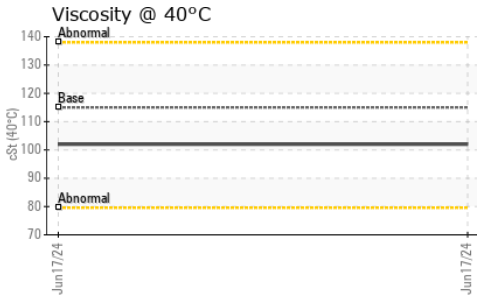
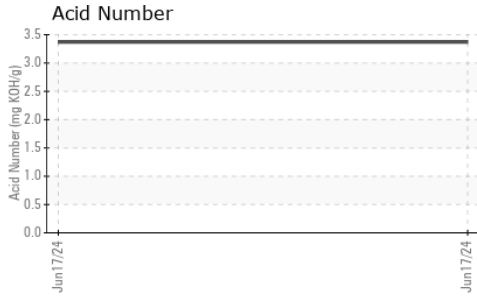
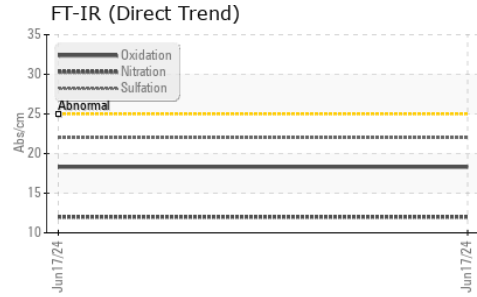
	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>25	8	---	---
Sodium	ppm ASTM D5185(m)	>57	8	---	---
Potassium	ppm ASTM D5185(m)	>20	4	---	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	>6	0.6	---	---
Nitration	Abs/cm ASTM D7624*	>20	12.0	---	---
Sulfation	Abs./1mm ASTM D7415*	>30	22.0	---	---



OIL ANALYSIS REPORT

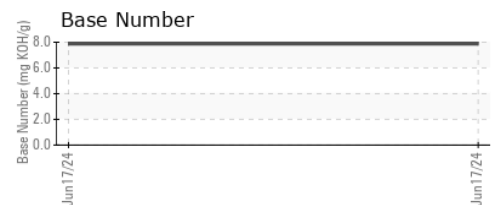
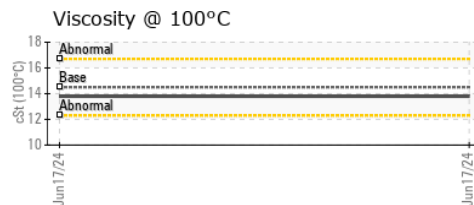
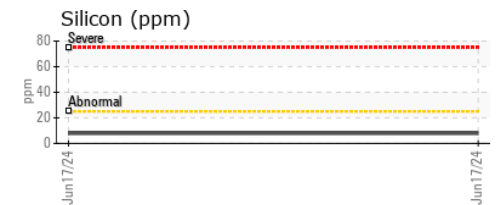
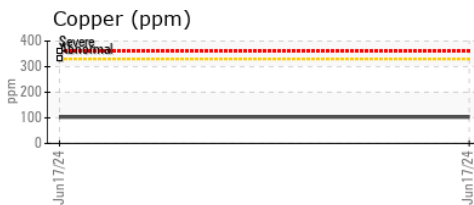
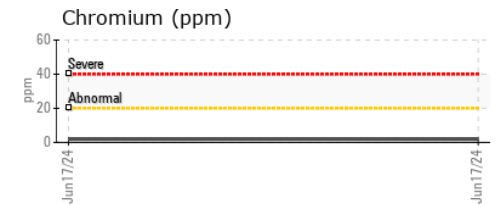
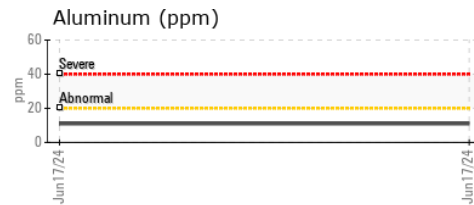
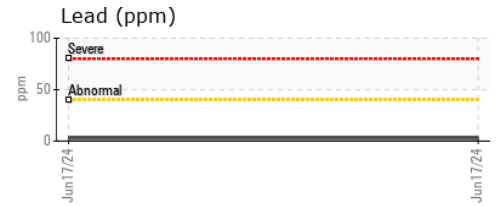
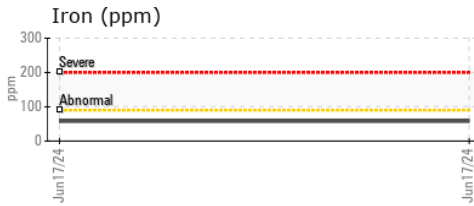


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.3	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		3.37	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		7.88	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	115	102	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	13.8	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	128	136	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000838
Lab Number : **02644118**
Unique Number : 5801657
Test Package : MOB 2 (Additional Tests: KV40, TAN Auto, VI, Visual)

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.