



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
GREATER MONCTON AIRPORT

Machine Id
2016107102

Component
Diesel Engine

Fluid
SHELL 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0019384	---	---
Sample Date		Client Info		14 May 2024	---	---
Machine Age	kms	Client Info		11250	---	---
Oil Age	kms	Client Info		2000	---	---
Filter Age	kms	Client Info		2000	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>80	6	---	---
Chromium	ppm	ASTM D5185(m)	>6	0	---	---
Nickel	ppm	ASTM D5185(m)	>2	<1	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	2	---	---
Lead	ppm	ASTM D5185(m)	>95	4	---	---
Copper	ppm	ASTM D5185(m)	>85	44	---	---
Tin	ppm	ASTM D5185(m)	>9	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

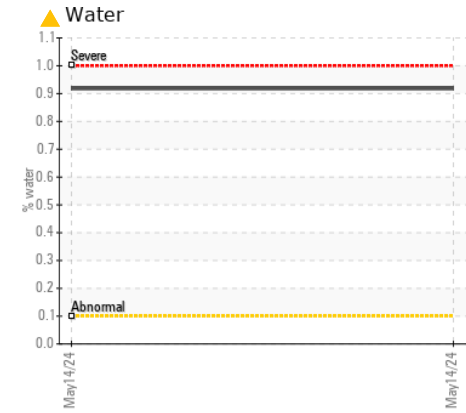
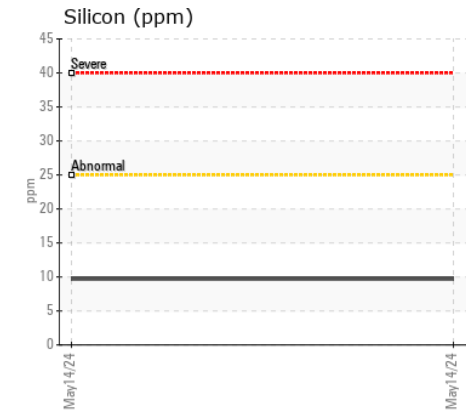
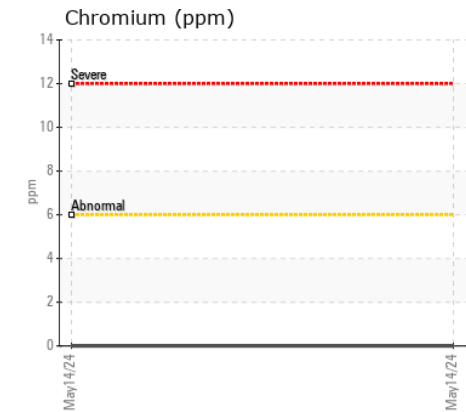
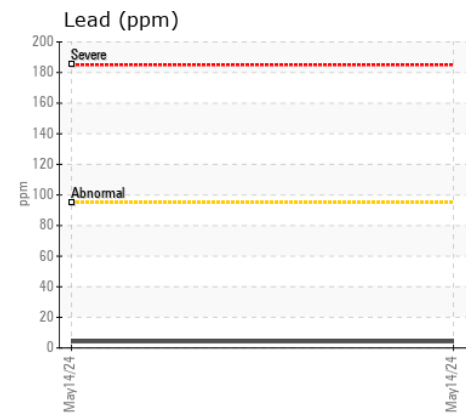
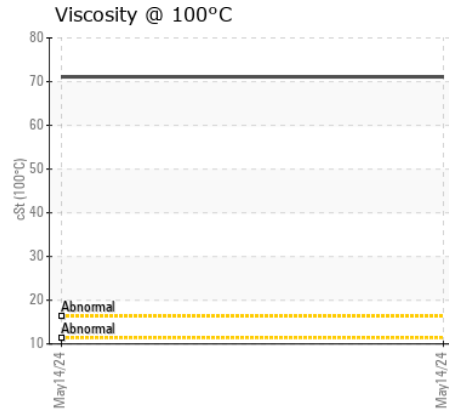
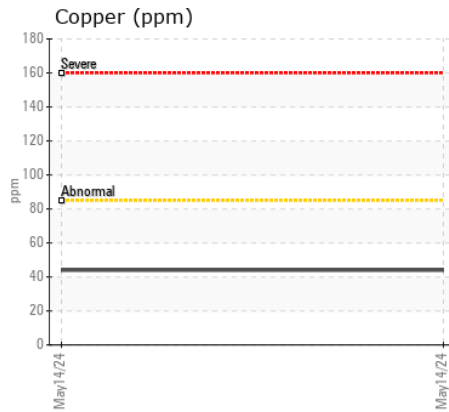
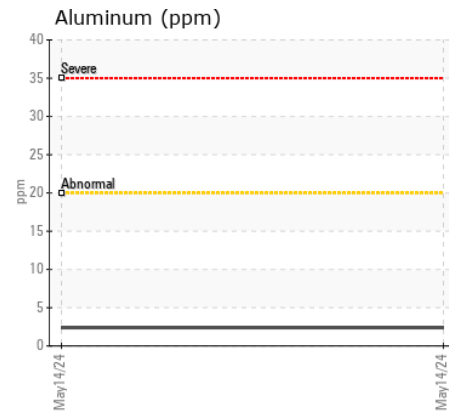
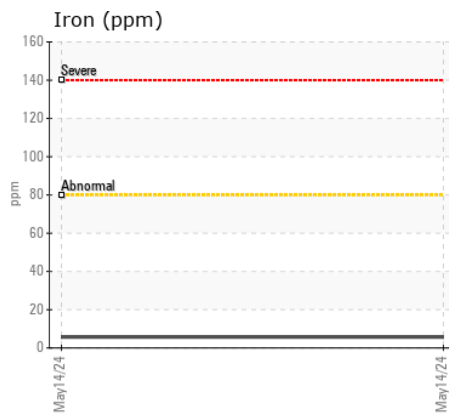
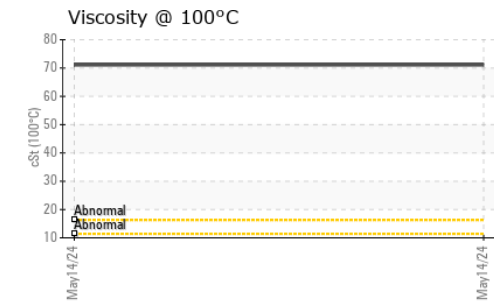
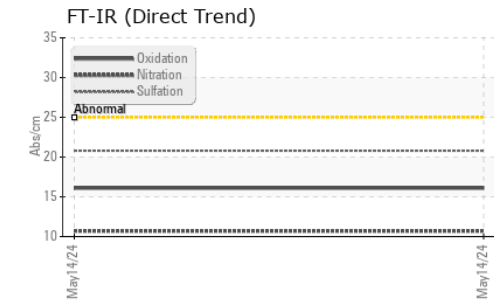
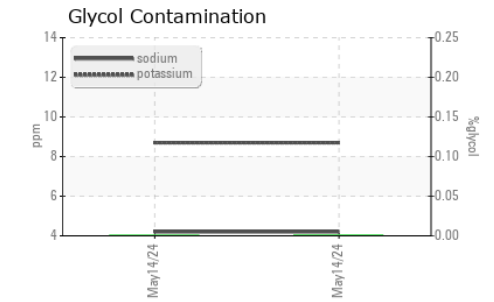
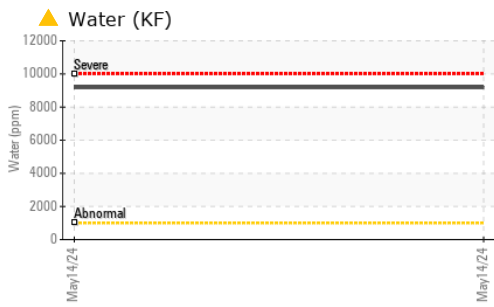
There is a high concentration of water present in the oil. Test for glycol is negative.

Silicon	ppm	ASTM D5185(m)	>25	10	---	---
Potassium	ppm	ASTM D5185(m)	>20	9	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water	%	ASTM D6304*	>0.1	▲ 0.918	---	---
ppm Water	ppm	ASTM D6304*	>1000	▲ 9182	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	10.7	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	▲ .2%	---	---

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>150	4	---	---
Boron	ppm	ASTM D5185(m)		143	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		2	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		26	---	---
Calcium	ppm	ASTM D5185(m)		1998	---	---
Phosphorus	ppm	ASTM D5185(m)		965	---	---
Zinc	ppm	ASTM D5185(m)		1131	---	---
Sulfur	ppm	ASTM D5185(m)		3038	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		71.1	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0019384 **Received** : 22 May 2024
Lab Number : 02636849 **Tested** : 24 May 2024
Unique Number : 5786011 **Diagnosed** : 24 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KF, Visual)

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.

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