



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Area
ERIE SHORES TRUCKING
Machine Id
INTERNATIONAL MN213246
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (42 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC	---	---
Sample Date		Client Info		05 Apr 2024	---	---
Machine Age	kms	Client Info		586644	---	---
Oil Age	kms	Client Info		40000	---	---
Filter Age	kms	Client Info		40000	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	26	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
Nickel	ppm	ASTM D5185(m)	>2	0	---	---
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)	>40	0	---	---
Copper	ppm	ASTM D5185(m)	>330	1	---	---
Tin	ppm	ASTM D5185(m)	>15	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

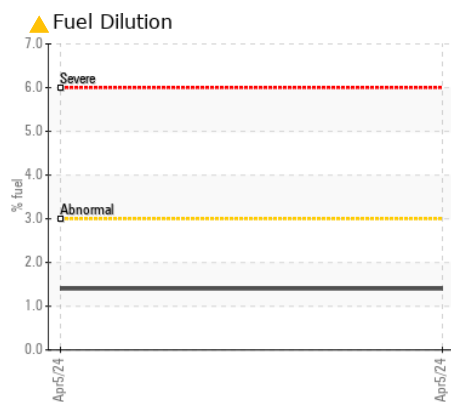
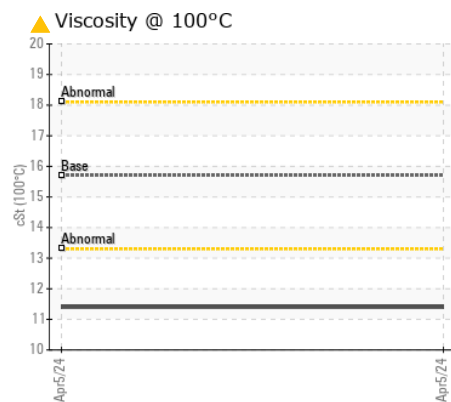
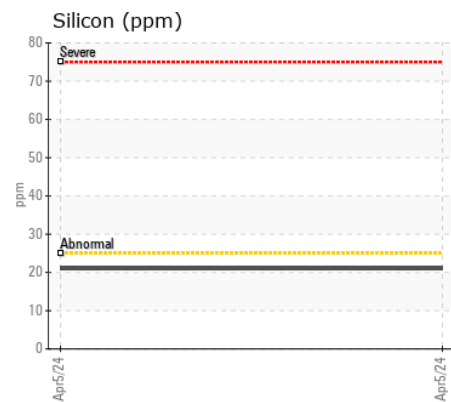
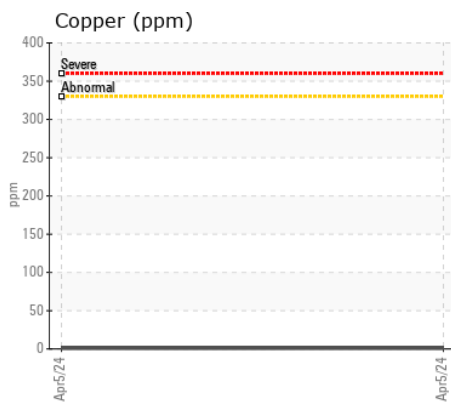
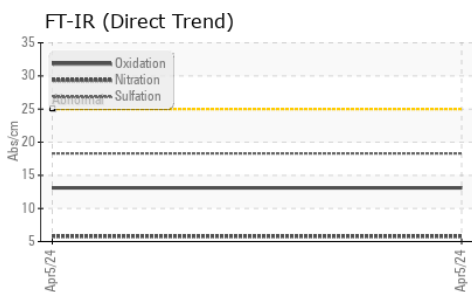
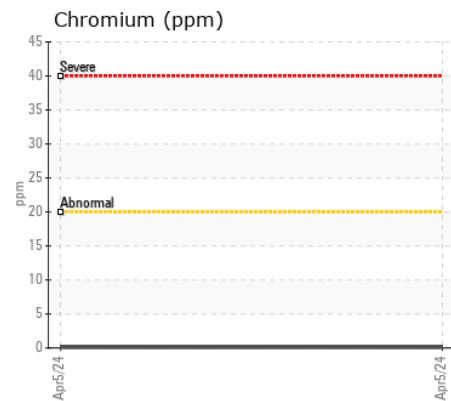
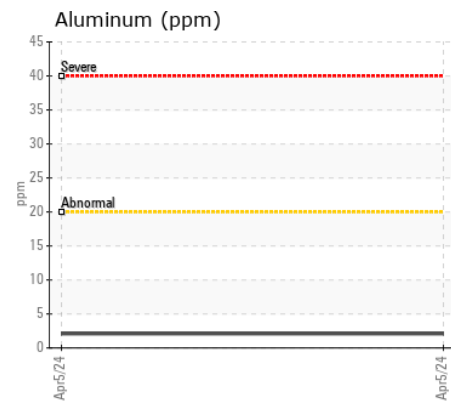
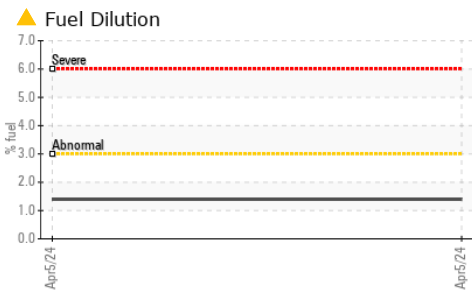
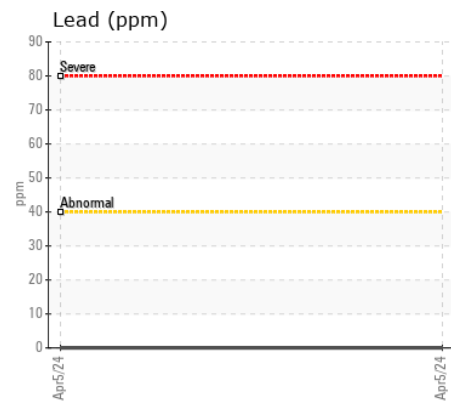
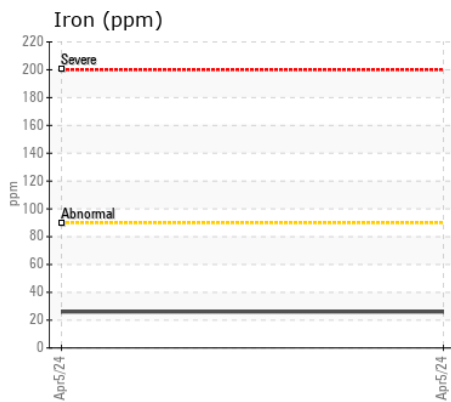
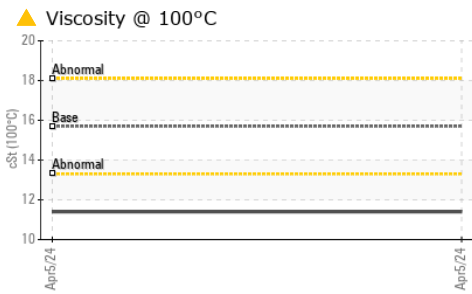
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185(m)	>25	21	---	---
Potassium	ppm	ASTM D5185(m)	>20	4	---	---
Fuel	%	ASTM D7593*	>3.0	▲ 1.4	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>6	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	5.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.3	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	---	---
Boron	ppm	ASTM D5185(m)	35	99	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	7	---	---
Manganese	ppm	ASTM D5185(m)	0	<1	---	---
Magnesium	ppm	ASTM D5185(m)	10	74	---	---
Calcium	ppm	ASTM D5185(m)	2340	2053	---	---
Phosphorus	ppm	ASTM D5185(m)	1110	874	---	---
Zinc	ppm	ASTM D5185(m)	1210	998	---	---
Sulfur	ppm	ASTM D5185(m)	3890	2832	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.1	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	▲ 11.4	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC **Received** : 12 Apr 2024
Lab Number : **02628397** **Tested** : 15 Apr 2024
Unique Number : 5761529 **Diagnosed** : 15 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual)

LEAMINGTON INTERNATIONAL TRUCKS
 6 SEACLIFFE DRIVE EAST
 LEAMINGTON, ON
 CA N8H 2L2
 Contact: Johnny Cacilhas
 johnny@leamingtoninternational.com
 T: (519)326-3226
 F: (519)322-2908

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.