



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**(GMN) City Of Mount Pearl**  
Machine Id  
**INTERNATIONAL Dual Arm Garbage Truck, 20-15G**  
Component  
**Diesel Engine**  
Fluid  
**IRVING IDO PREMIUM PLUS 15W40 (24 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: 1st G2F )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>OF0000324</b>	OF0000323	---
Sample Date		Client Info		<b>12 Apr 2021</b>	08 Feb 2021	---
Machine Age	hrs	Client Info		<b>369</b>	210	---
Oil Age	hrs	Client Info		<b>159</b>	210	---
Filter Age	hrs	Client Info		<b>159</b>	210	---
Oil Changed		Client Info		<b>Not Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	<b>34</b>	29	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>2	<b>1</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>5</b>	4	---
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	<1	---
Copper	ppm	ASTM D5185(m)	>330	<b>21</b>	18	---
Tin	ppm	ASTM D5185(m)	>15	<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

**CONTAMINATION**

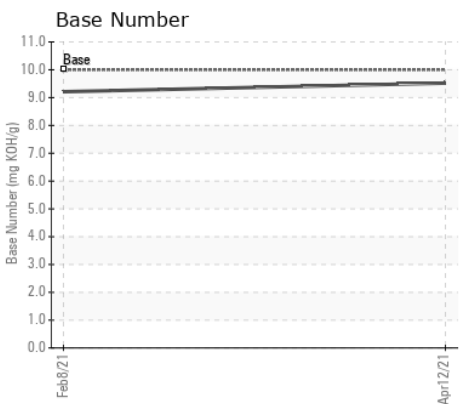
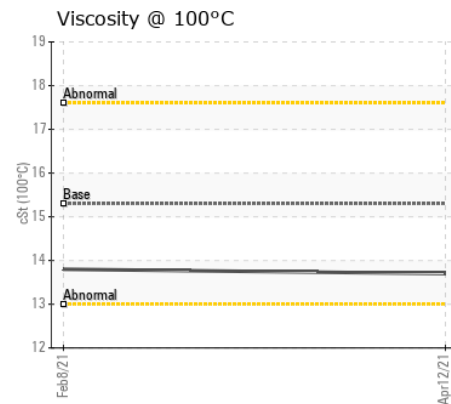
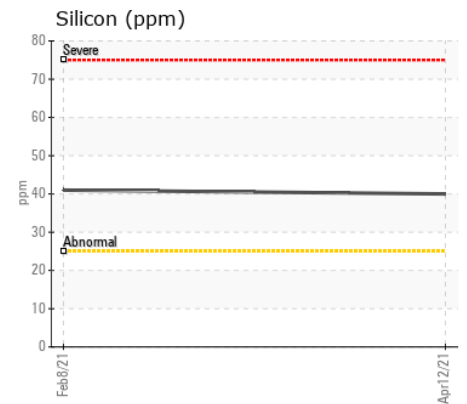
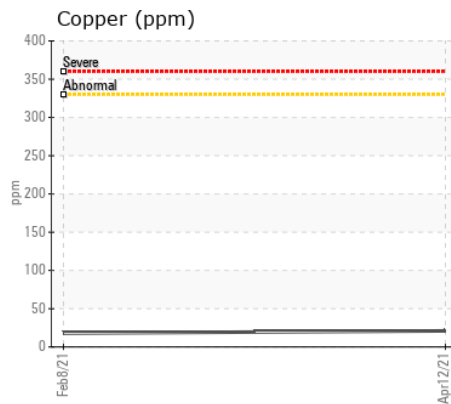
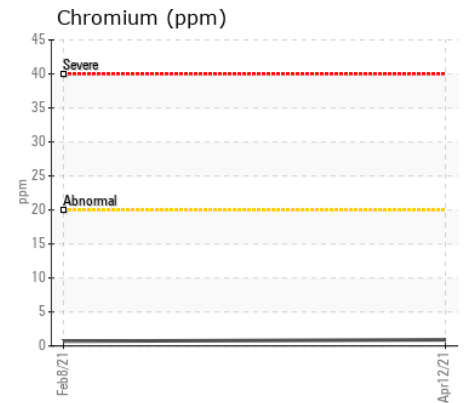
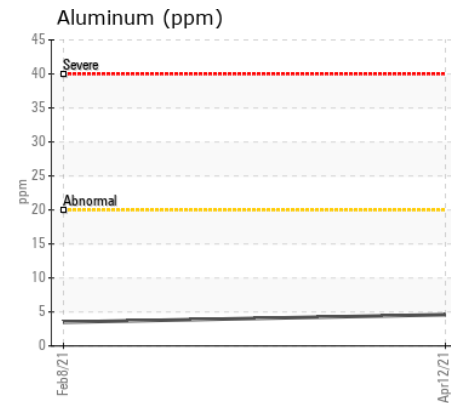
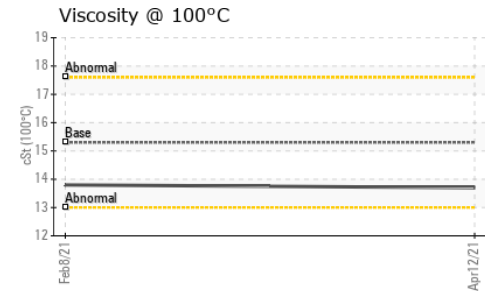
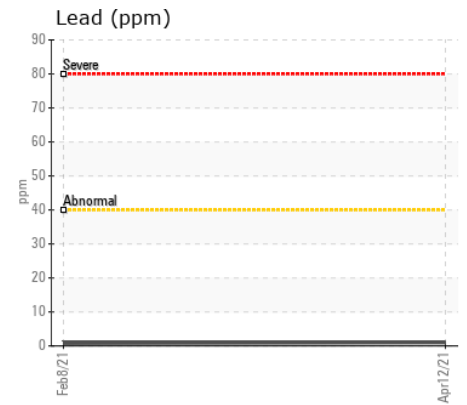
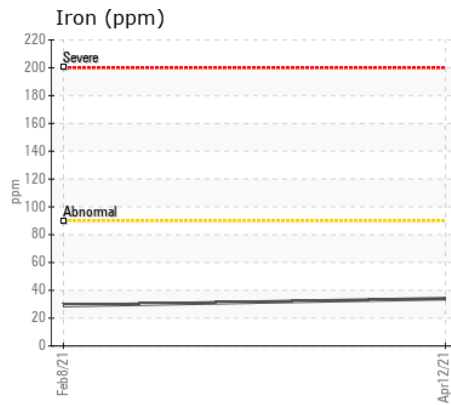
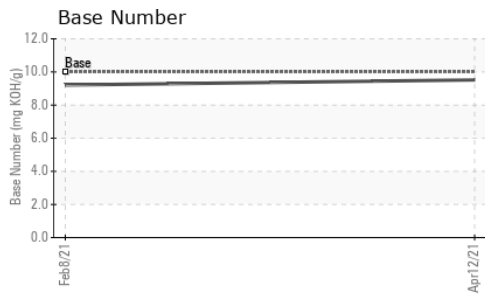
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>40</b>	41	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>6	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.4</b>	8.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.8</b>	21.2	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	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)		<b>6</b>	7	---
Boron	ppm	ASTM D5185(m)		<b>42</b>	58	---
Barium	ppm	ASTM D5185(m)		<b>7</b>	7	---
Molybdenum	ppm	ASTM D5185(m)		<b>44</b>	44	---
Manganese	ppm	ASTM D5185(m)		<b>6</b>	6	---
Magnesium	ppm	ASTM D5185(m)		<b>585</b>	590	---
Calcium	ppm	ASTM D5185(m)		<b>1526</b>	1529	---
Phosphorus	ppm	ASTM D5185(m)		<b>1037</b>	1054	---
Zinc	ppm	ASTM D5185(m)		<b>1187</b>	1188	---
Sulfur	ppm	ASTM D5185(m)		<b>2652</b>	2697	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.4</b>	16.6	---
Base Number (BN)	mg KOH/g	ASTM D2896*	10	<b>9.52</b>	9.21	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	<b>13.7</b>	13.8	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : OF0000324 **Received** : 08 Apr 2022  
**Lab Number** : **02482282** **Tested** : 11 Apr 2022  
**Unique Number** : 5383219 **Diagnosed** : 11 Apr 2022 - Kevin Marson  
**Test Package** : MOB 2

**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.