



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**(GMN 124) City Of Mount Pearl**  
Machine Id  
**INTERNATIONAL Rear Loader Garbage Truck, 20-04G**  
Component  
**Diesel Engine**  
Fluid  
**IRVING IDO PREMIUM PLUS 15W40 (24 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>OF0000315</b>	OF0000245	OF0000272
Sample Date		Client Info		<b>28 Feb 2022</b>	21 Sep 2021	30 Mar 2021
Machine Age	hrs	Client Info		<b>1071</b>	826	509
Oil Age	hrs	Client Info		<b>643</b>	539	81
Filter Age	hrs	Client Info		<b>245</b>	458	81
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>65</b>	56	42
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	1	1
Aluminum	ppm	ASTM D5185(m)	>20	<b>7</b>	6	4
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	2	1
Copper	ppm	ASTM D5185(m)	>330	<b>33</b>	34	20
Tin	ppm	ASTM D5185(m)	>15	<b>2</b>	1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

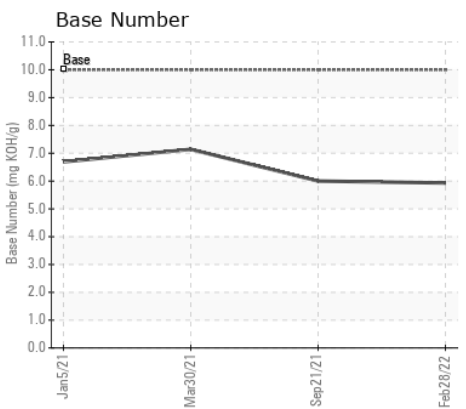
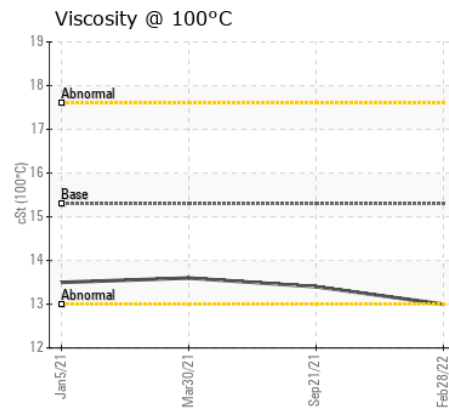
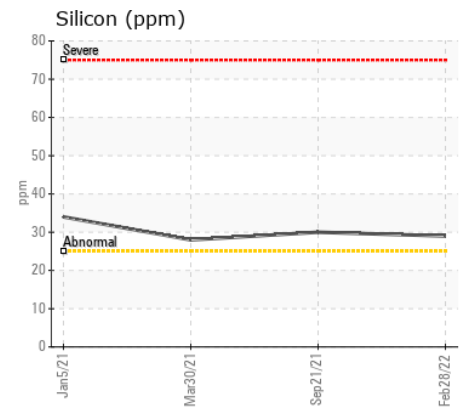
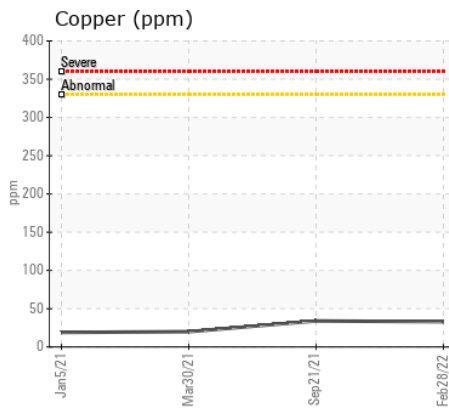
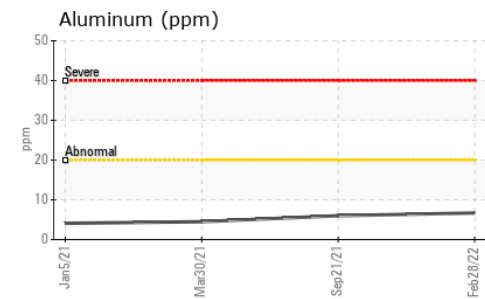
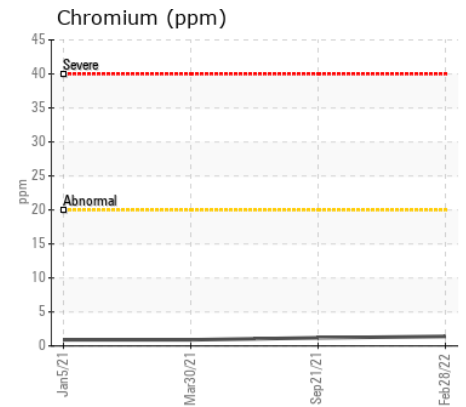
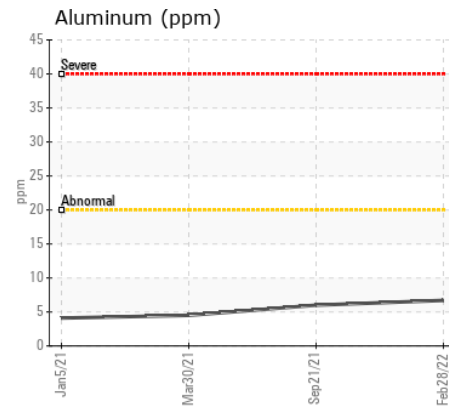
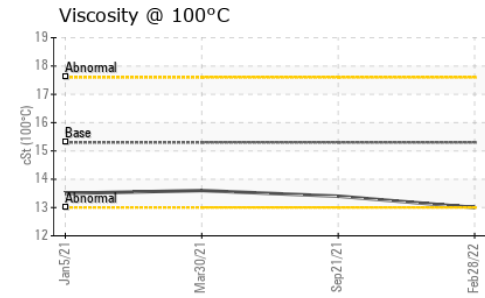
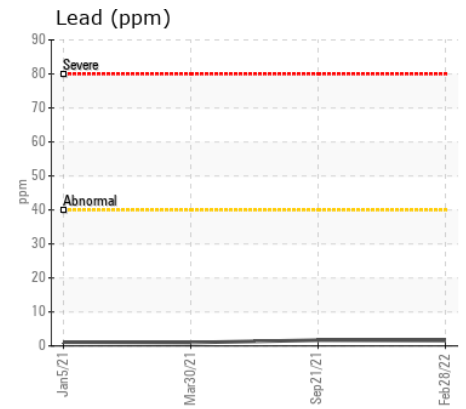
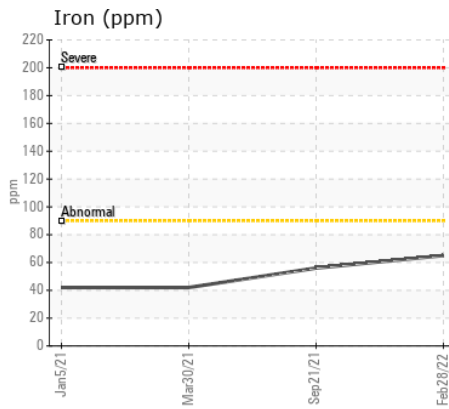
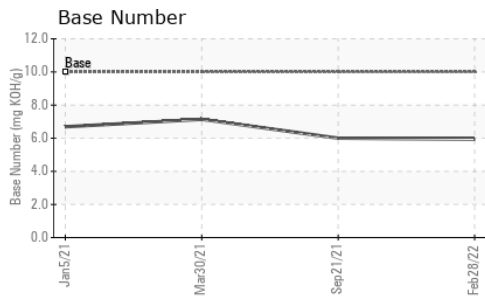
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>29</b>	30	28
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	3	2
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0.1</b>	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.3</b>	11.5	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.8</b>	24.2	22.1
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	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>5</b>	5	5
Boron	ppm	ASTM D5185(m)		<b>14</b>	17	33
Barium	ppm	ASTM D5185(m)		<b>5</b>	6	6
Molybdenum	ppm	ASTM D5185(m)		<b>47</b>	44	43
Manganese	ppm	ASTM D5185(m)		<b>5</b>	5	5
Magnesium	ppm	ASTM D5185(m)		<b>474</b>	514	505
Calcium	ppm	ASTM D5185(m)		<b>1588</b>	1514	1602
Phosphorus	ppm	ASTM D5185(m)		<b>878</b>	909	1010
Zinc	ppm	ASTM D5185(m)		<b>1144</b>	1154	1187
Sulfur	ppm	ASTM D5185(m)		<b>2619</b>	2656	2741
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>11.7</b>	18.8	17.6
Base Number (BN)	mg KOH/g	ASTM D2896*	10	<b>5.93</b>	6.00	7.14
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	<b>13.0</b>	13.4	13.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : OF0000315  
**Lab Number** : 02482302  
**Unique Number** : 5383239  
**Test Package** : MOB 2  
**Received** : 08 Apr 2022  
**Tested** : 19 Apr 2022  
**Diagnosed** : 19 Apr 2022 - Kevin Marson

**Oil Filtration Solutions Ltd.**  
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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.