



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. (Customer Sample Comment: G2F 1-micron changed only)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000272	OF0000270	---
Sample Date		Client Info		30 Mar 2021	05 Jan 2021	---
Machine Age	hrs	Client Info		509	428	---
Oil Age	hrs	Client Info		81	428	---
Filter Age	hrs	Client Info		81	428	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	42	42	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	1	1	---
Aluminum	ppm	ASTM D5185(m)	>20	4	4	---
Lead	ppm	ASTM D5185(m)	>40	1	1	---
Copper	ppm	ASTM D5185(m)	>330	20	19	---
Tin	ppm	ASTM D5185(m)	>15	1	1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

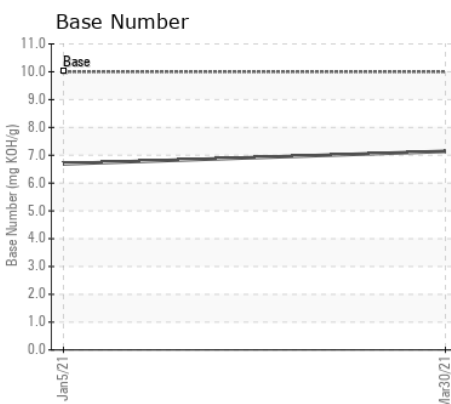
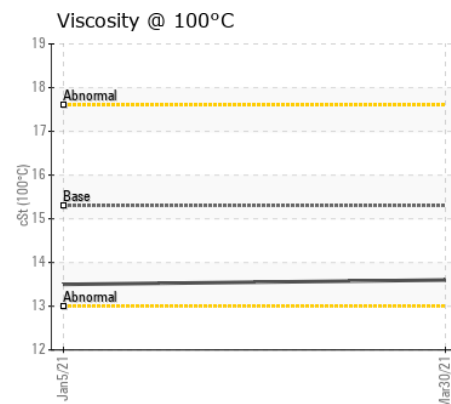
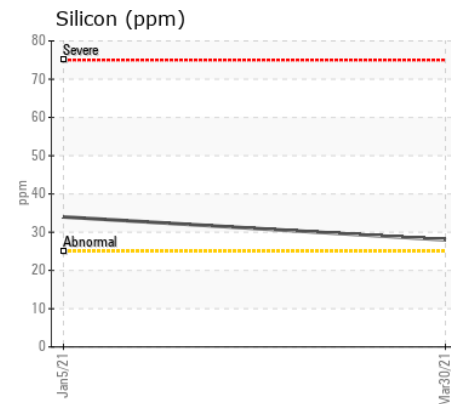
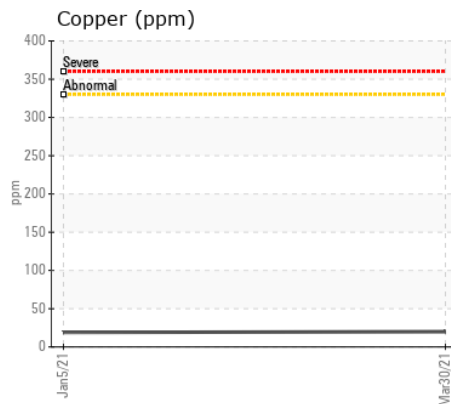
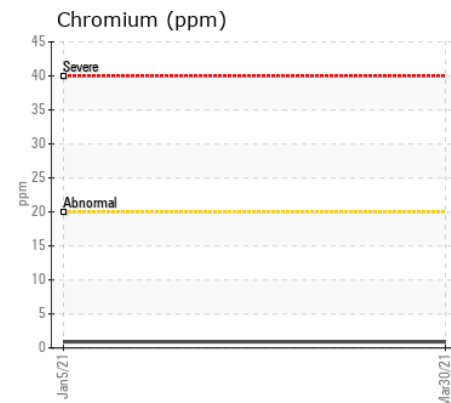
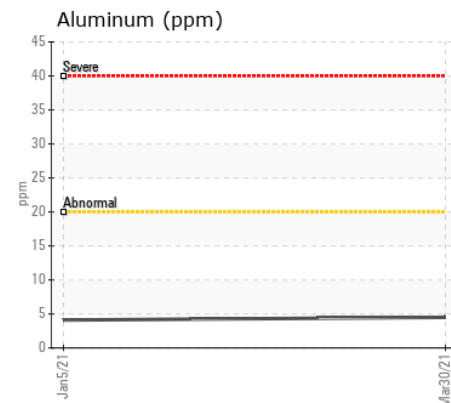
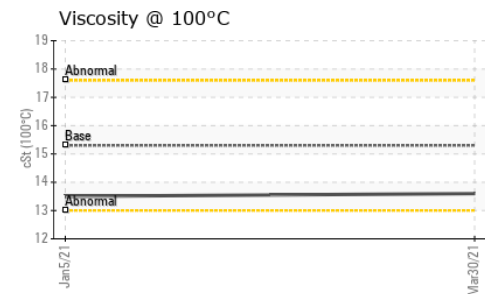
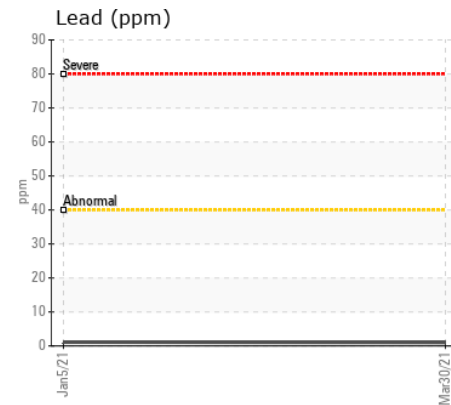
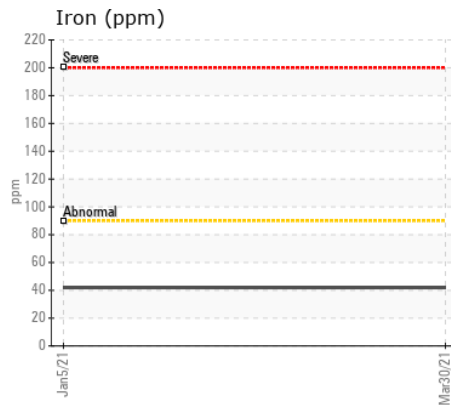
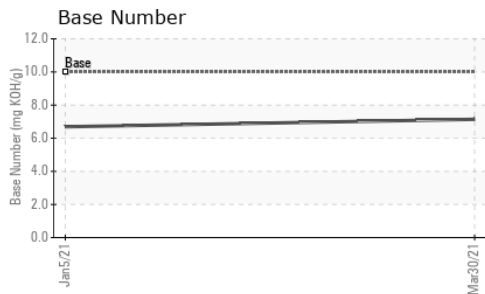
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	28	34	---
Potassium	ppm	ASTM D5185(m)	>20	2	2	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>6	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	10.8	10.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	21.9	---
Emulsified Water	scalar	Visual*	>0.2	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)		5	6	---
Boron	ppm	ASTM D5185(m)		33	38	---
Barium	ppm	ASTM D5185(m)		6	7	---
Molybdenum	ppm	ASTM D5185(m)		43	47	---
Manganese	ppm	ASTM D5185(m)		5	5	---
Magnesium	ppm	ASTM D5185(m)		505	580	---
Calcium	ppm	ASTM D5185(m)		1602	1529	---
Phosphorus	ppm	ASTM D5185(m)		1010	1050	---
Zinc	ppm	ASTM D5185(m)		1187	1207	---
Sulfur	ppm	ASTM D5185(m)		2741	2719	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.6	17.7	---
Base Number (BN)	mg KOH/g	ASTM D2896*	10	7.14	6.69	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	13.6	13.5	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000272 **Received** : 09 Mar 2022
Lab Number : 02476453 **Tested** : 10 Mar 2022
Unique Number : 5369381 **Diagnosed** : 10 Mar 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.