



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(GMN476) City Of Mount Pearl
Machine Id
INTERNATIONAL Dual Arm Garbage Truck, 20-13G
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		OF0000279	OF0000277	---
Sample Date		Client Info		12 Apr 2021	25 Jan 2021	---
Machine Age	hrs	Client Info		376	178	---
Oil Age	hrs	Client Info		198	178	---
Filter Age	hrs	Client Info		198	178	---
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	39	29	---
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	5	3	---
Lead	ppm	ASTM D5185(m)	>40	1	<1	---
Copper	ppm	ASTM D5185(m)	>330	27	16	---
Tin	ppm	ASTM D5185(m)	>15	1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

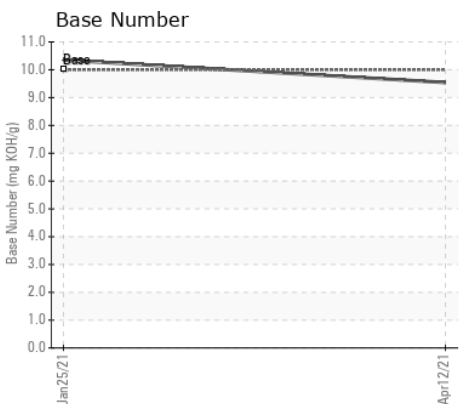
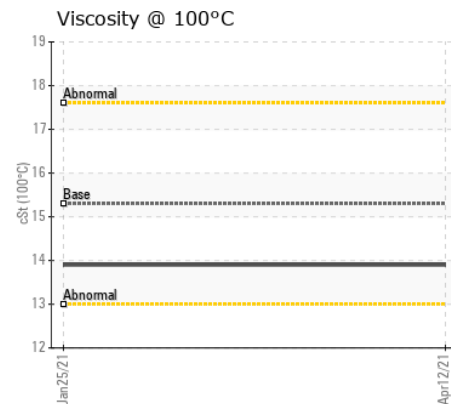
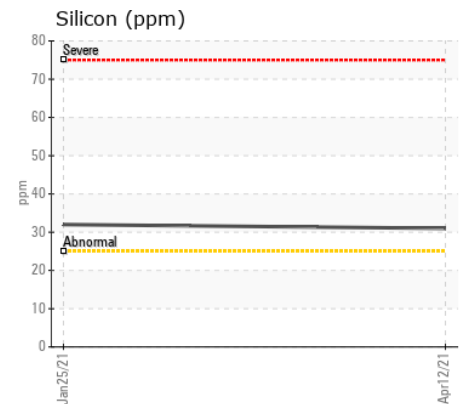
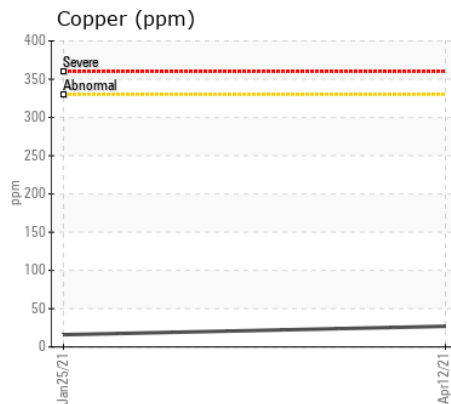
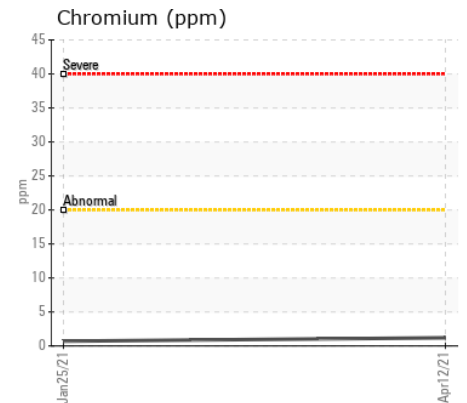
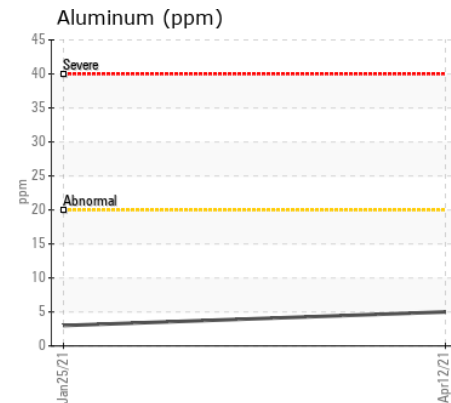
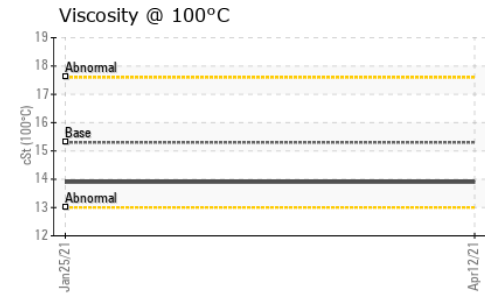
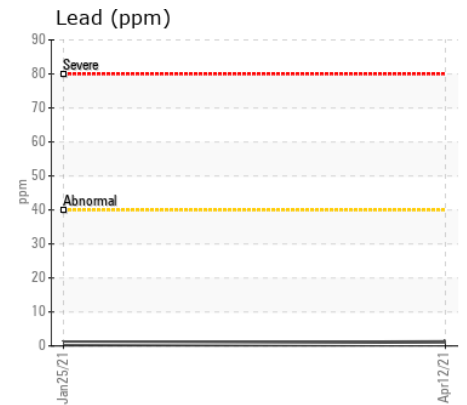
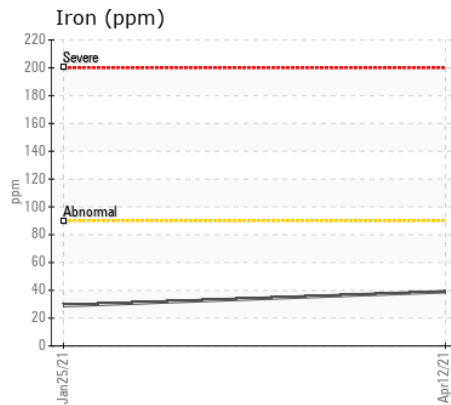
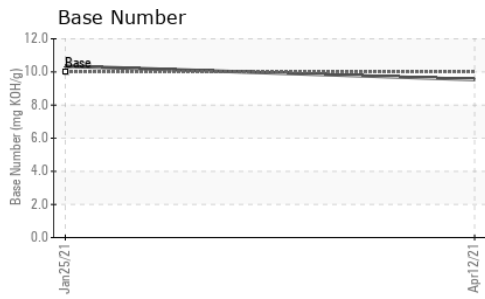
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	31	32	---
Potassium	ppm	ASTM D5185(m)	>20	1	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	0.2	0	---
Nitration	Abs/cm	ASTM D7624*	>20	9.2	7.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.6	20.7	---
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)		36	52	---
Barium	ppm	ASTM D5185(m)		8	8	---
Molybdenum	ppm	ASTM D5185(m)		47	47	---
Manganese	ppm	ASTM D5185(m)		5	5	---
Magnesium	ppm	ASTM D5185(m)		638	658	---
Calcium	ppm	ASTM D5185(m)		1496	1448	---
Phosphorus	ppm	ASTM D5185(m)		1049	1042	---
Zinc	ppm	ASTM D5185(m)		1194	1180	---
Sulfur	ppm	ASTM D5185(m)		2654	2660	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.1	16.3	---
Base Number (BN)	mg KOH/g	ASTM D2896*	10	9.54	10.35	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	13.9	13.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000279
Lab Number : **02476444**
Unique Number : 5369372
Test Package : MOB 2
Received : 09 Mar 2022
Tested : 10 Mar 2022
Diagnosed : 10 Mar 2022 - Kevin Marson

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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.