



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(GMN 477) City Of Mount Pearl [After 2 G2F]
 Machine Id
INTERNATIONAL Dual Arm Garbage Truck, 20-14G

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		OF0000334	OF0000288	OF0000287
Sample Date		Client Info		29 Jun 2021	12 Apr 2021	01 Feb 2021
Machine Age	hrs	Client Info		690	454	287
Oil Age	hrs	Client Info		403	454	287
Filter Age	hrs	Client Info		236	167	287
Oil Changed		Client Info		Not Changed	Not Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	33	19	44
Chromium	ppm	ASTM D5185(m)	>20	1	<1	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	7	4	5
Lead	ppm	ASTM D5185(m)	>40	1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	33	4	14
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

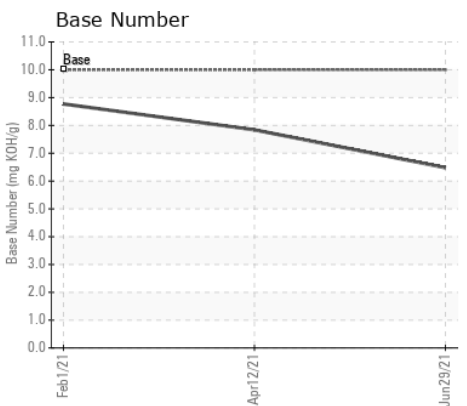
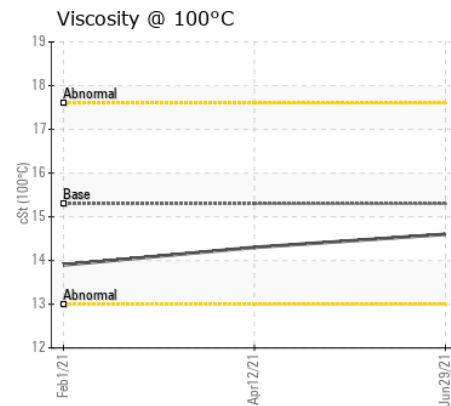
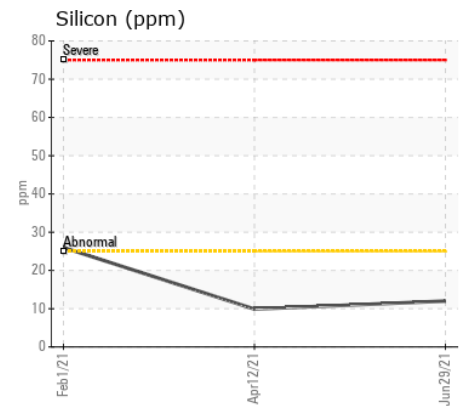
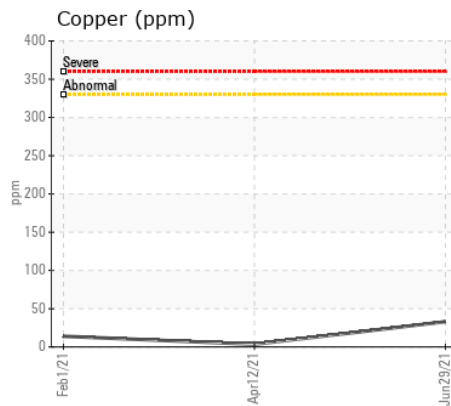
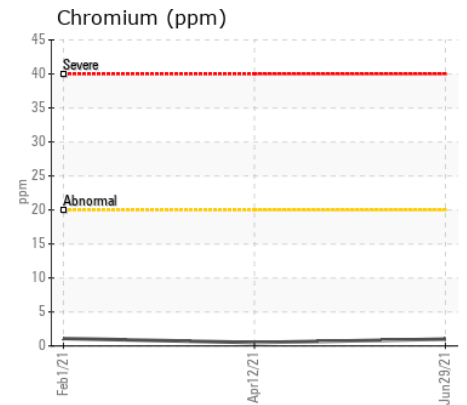
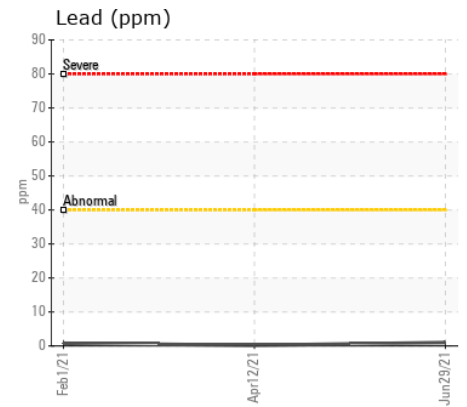
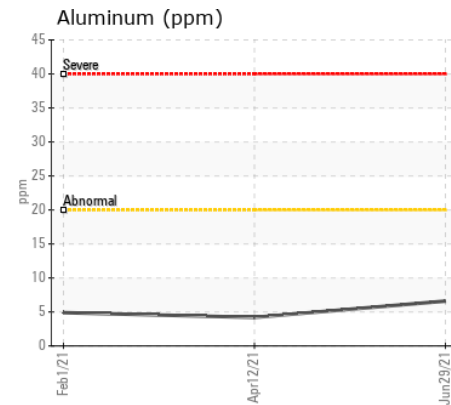
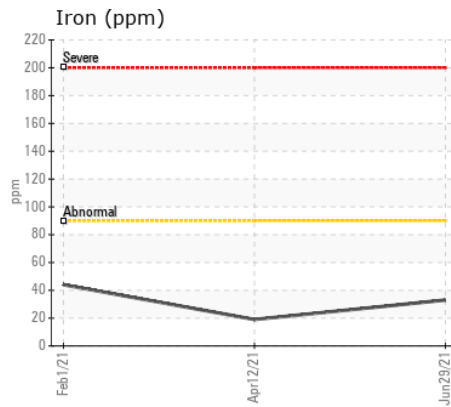
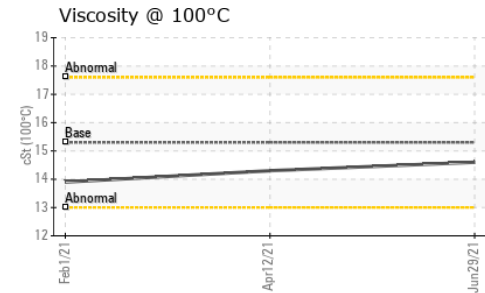
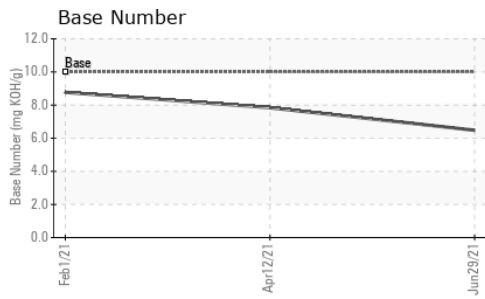
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	12	10	26
Potassium	ppm	ASTM D5185(m)	>20	1	<1	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.5	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	9.8	8.4	8.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1	19.5	21.3
Emulsified Water	scalar	Visual*	>0.2	NEG	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)		4	3	6
Boron	ppm	ASTM D5185(m)		31	50	40
Barium	ppm	ASTM D5185(m)		1	1	7
Molybdenum	ppm	ASTM D5185(m)		13	13	49
Manganese	ppm	ASTM D5185(m)		1	1	5
Magnesium	ppm	ASTM D5185(m)		136	145	693
Calcium	ppm	ASTM D5185(m)		2037	2034	1457
Phosphorus	ppm	ASTM D5185(m)		1041	1056	1049
Zinc	ppm	ASTM D5185(m)		1191	1185	1210
Sulfur	ppm	ASTM D5185(m)		3199	3326	2705
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.5	13.3	16.4
Base Number (BN)	mg KOH/g	ASTM D2896*	10	6.48	7.84	8.77
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	14.6	14.3	13.9



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000334
Lab Number : **02482277**
Unique Number : 5383214
Test Package : MOB 2
Received : 08 Apr 2022
Tested : 11 Apr 2022
Diagnosed : 11 Apr 2022 - Wes Davis

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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.