



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area (GMN 111) City Of Mount Pearl [3HAEKTART1ML680957]

Machine Id INTERNATIONAL Side Loader Recycling Truck, 20-02G

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		OF0000275	OF0000268	---
Sample Date		Client Info		30 Mar 2021	01 Feb 2021	---
Machine Age	hrs	Client Info		804	643	---
Oil Age	hrs	Client Info		161	100	---
Filter Age	hrs	Client Info		161	100	---
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	14	10	---
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	3	3	---
Lead	ppm	ASTM D5185(m)	>40	2	2	---
Copper	ppm	ASTM D5185(m)	>330	65	63	---
Tin	ppm	ASTM D5185(m)	>15	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

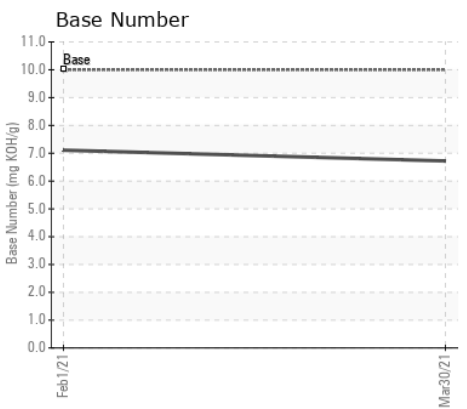
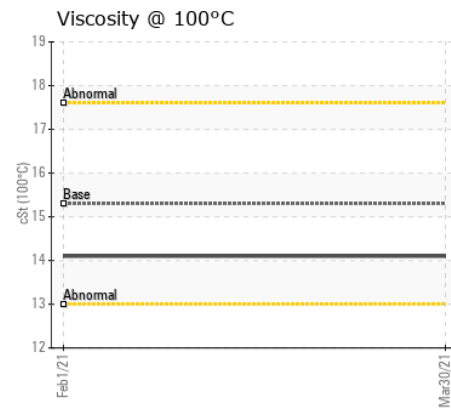
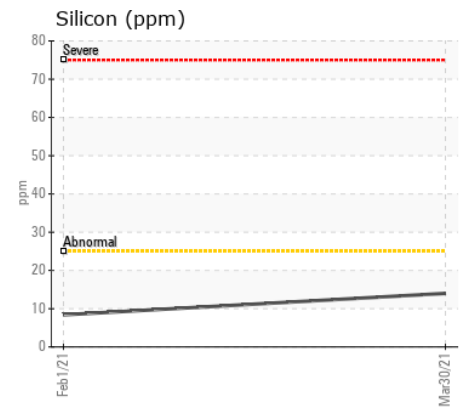
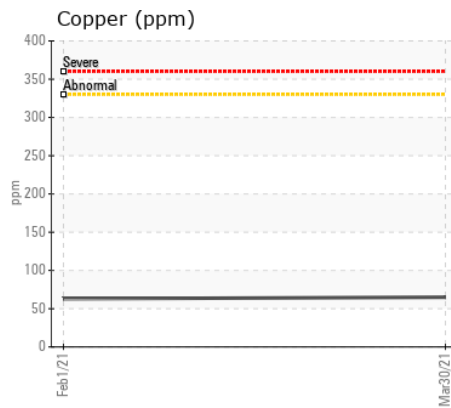
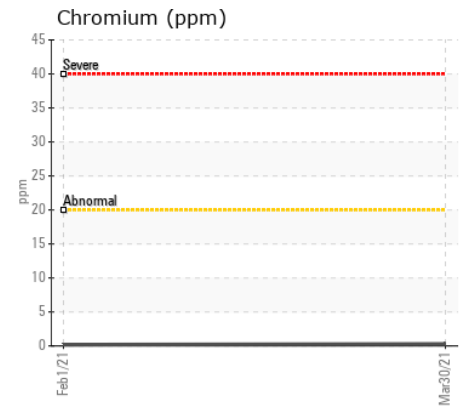
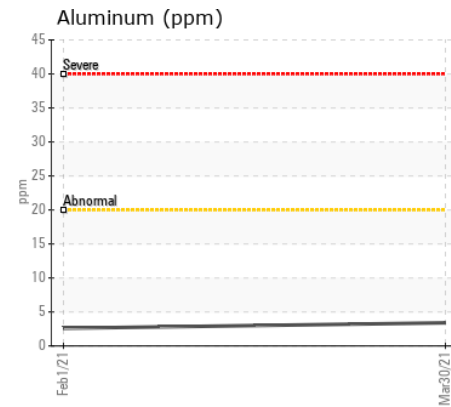
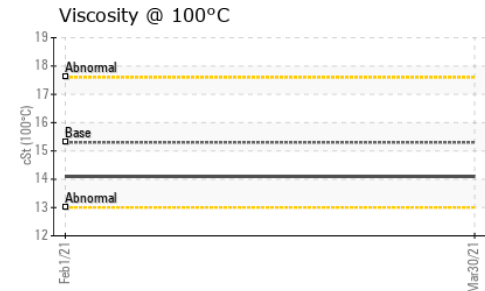
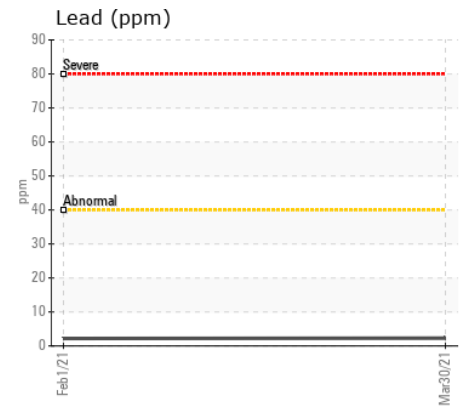
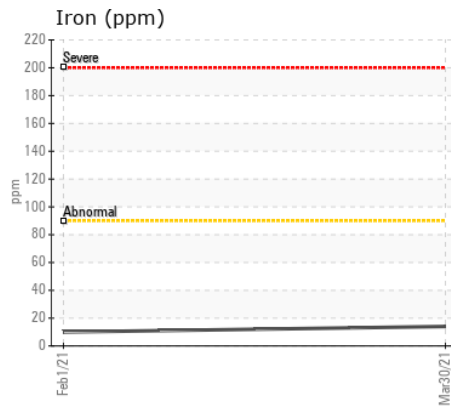
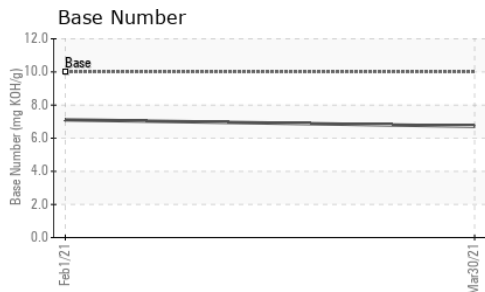
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	14	8	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
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	9.7	9.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	19.3	---
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)		3	3	---
Boron	ppm	ASTM D5185(m)		40	58	---
Barium	ppm	ASTM D5185(m)		<1	<1	---
Molybdenum	ppm	ASTM D5185(m)		19	20	---
Manganese	ppm	ASTM D5185(m)		1	1	---
Magnesium	ppm	ASTM D5185(m)		157	163	---
Calcium	ppm	ASTM D5185(m)		2056	2017	---
Phosphorus	ppm	ASTM D5185(m)		1079	1071	---
Zinc	ppm	ASTM D5185(m)		1196	1186	---
Sulfur	ppm	ASTM D5185(m)		3321	3355	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	14.1	---
Base Number (BN)	mg KOH/g	ASTM D2896*	10	6.72	7.11	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	14.1	14.1	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : OF0000275 **Received** : 09 Mar 2022  
**Lab Number** : 02476441 **Tested** : 10 Mar 2022  
**Unique Number** : 5369369 **Diagnosed** : 10 Mar 2022 - Wes Davis  
**Test Package** : MOB 2

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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.