



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		OF0000330	OF0000274	OF0000275
Sample Date		Client Info		18 Oct 2021	29 Jun 2021	30 Mar 2021
Machine Age	hrs	Client Info		1277	1080	804
Oil Age	hrs	Client Info		643	437	161
Filter Age	hrs	Client Info		163	276	161
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	11	13	14
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	2	3	3
Lead	ppm	ASTM D5185(m)	>40	<1	<1	2
Copper	ppm	ASTM D5185(m)	>330	4	13	65
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

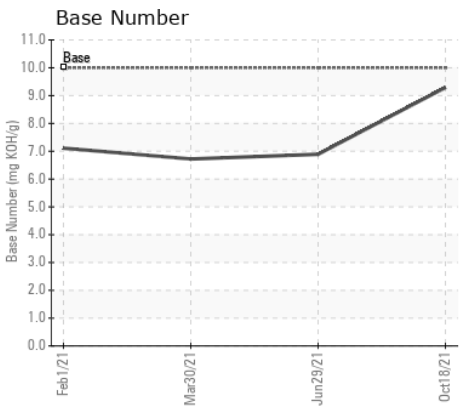
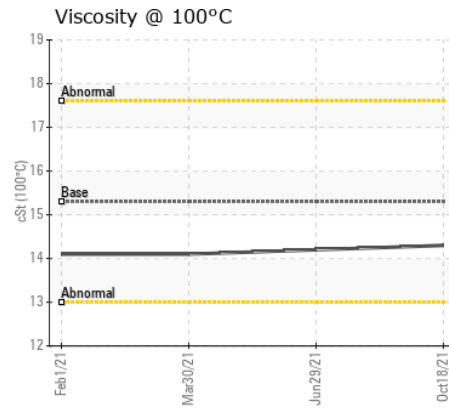
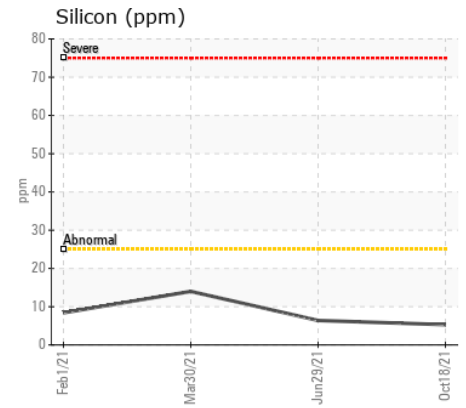
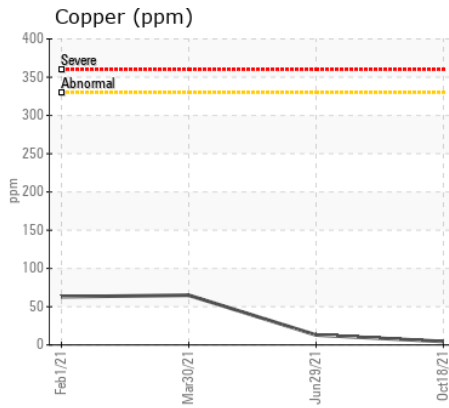
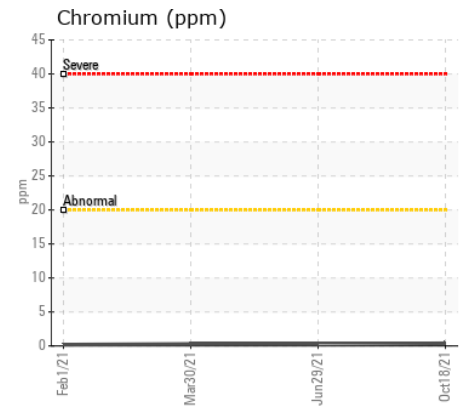
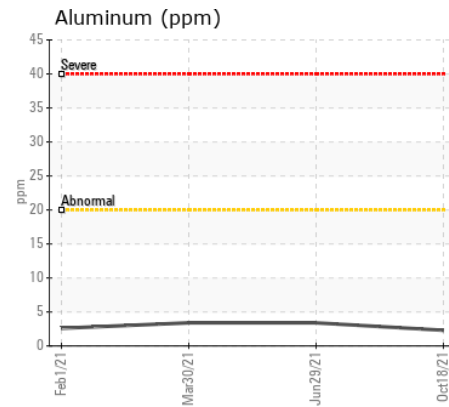
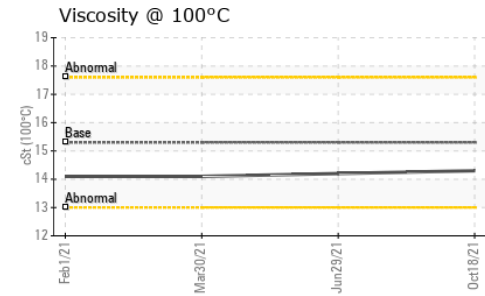
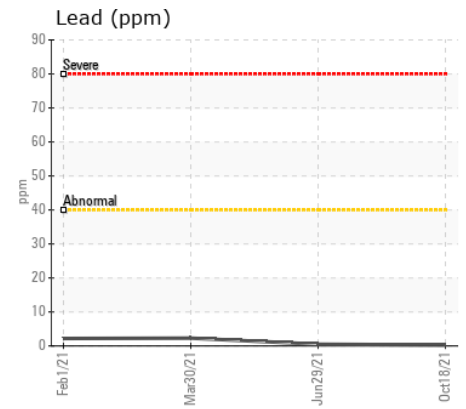
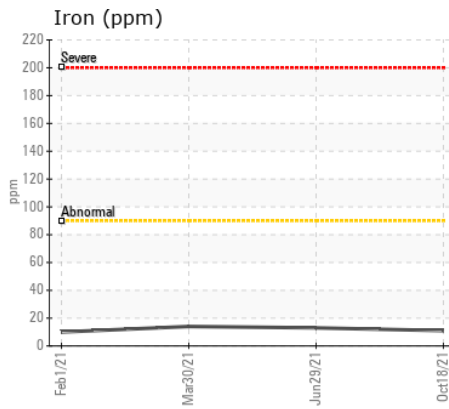
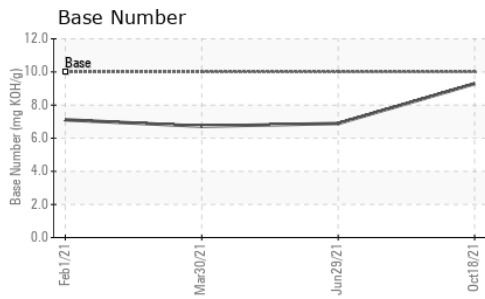
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	6	14
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
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	0.1	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	7.0	9.4	9.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	19.5	20.1
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)		2	2	3
Boron	ppm	ASTM D5185(m)		7	43	40
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		49	10	19
Manganese	ppm	ASTM D5185(m)		<1	<1	1
Magnesium	ppm	ASTM D5185(m)		821	50	157
Calcium	ppm	ASTM D5185(m)		1223	2041	2056
Phosphorus	ppm	ASTM D5185(m)		1065	1057	1079
Zinc	ppm	ASTM D5185(m)		1206	1155	1196
Sulfur	ppm	ASTM D5185(m)		2726	3227	3321
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	13.7	14.3
Base Number (BN)	mg KOH/g	ASTM D2896*	10	9.29	6.89	6.72
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	14.3	14.2	14.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000330 **Received** : 09 Mar 2022
Lab Number : 02476448 **Tested** : 10 Mar 2022
Unique Number : 5369376 **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.