



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

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000317	OF0000330	OF0000274
Sample Date		Client Info		28 Feb 2022	18 Oct 2021	29 Jun 2021
Machine Age	hrs	Client Info		1882	1277	1080
Oil Age	hrs	Client Info		1237	643	437
Filter Age	hrs	Client Info		605	163	276
Oil Changed		Client Info		Changed	Not Changd	Not Changd
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	14	11	13
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	3	2	3
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	3	4	13
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

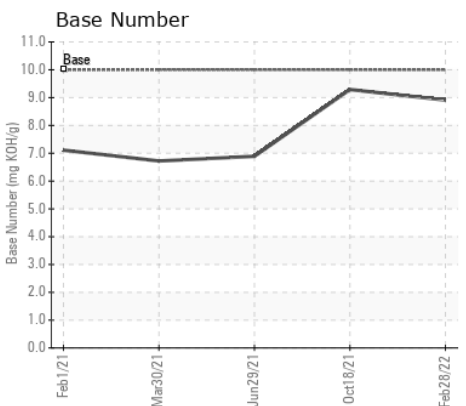
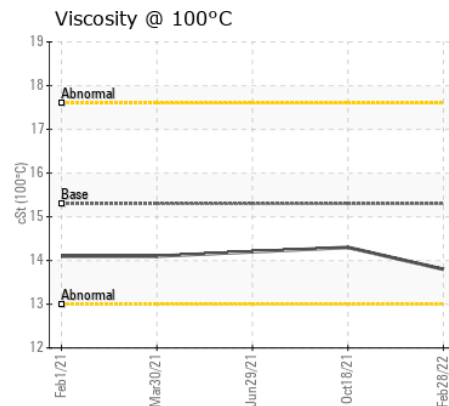
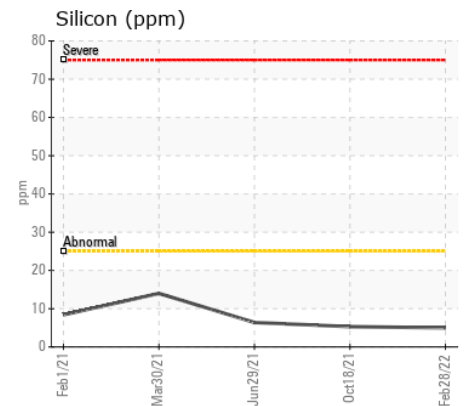
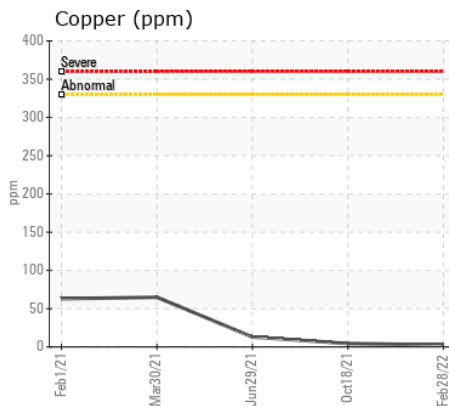
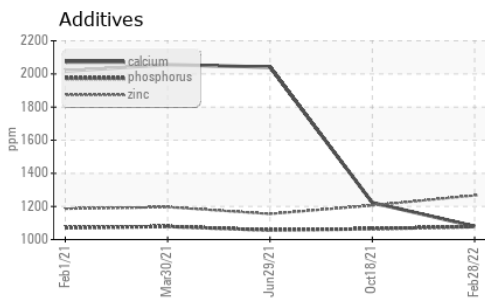
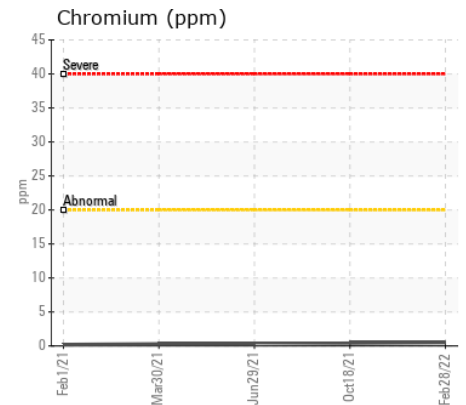
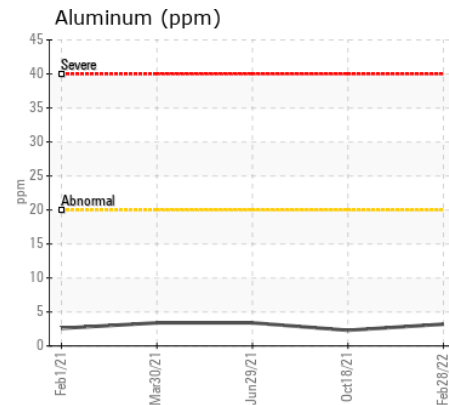
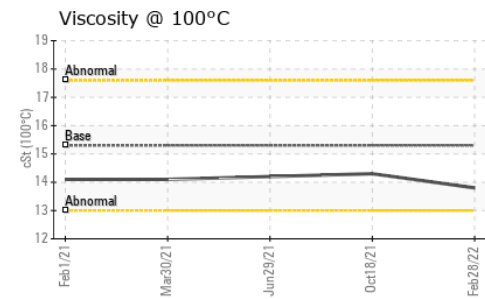
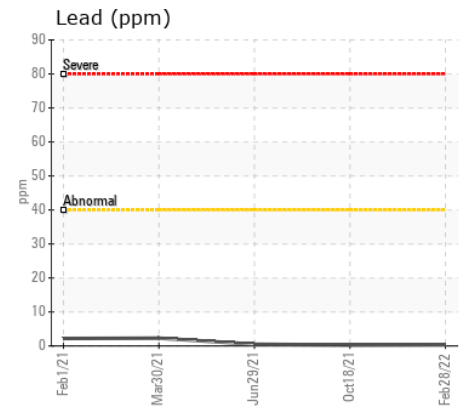
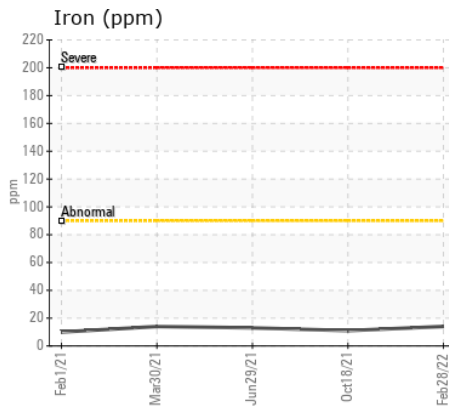
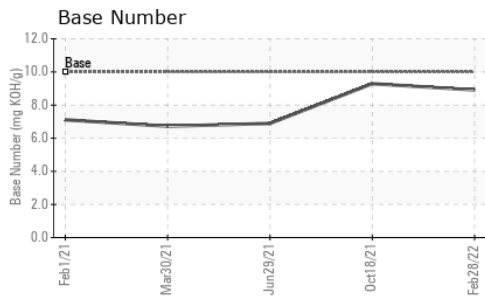
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	5	6
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	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	3.8	7.0	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.2	19.8	19.5
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. 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	2
Boron	ppm	ASTM D5185(m)		2	7	43
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		57	49	10
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		965	821	50
Calcium	ppm	ASTM D5185(m)		1080	1223	2041
Phosphorus	ppm	ASTM D5185(m)		1078	1065	1057
Zinc	ppm	ASTM D5185(m)		1266	1206	1155
Sulfur	ppm	ASTM D5185(m)		2666	2726	3227
Oxidation	Abs/.1mm	ASTM D7414*	>25	5.9	14.3	13.7
Base Number (BN)	mg KOH/g	ASTM D2896*	10	8.91	9.29	6.89
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	13.8	14.3	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000317
Lab Number : 02482301
Unique Number : 5383238
Test Package : MOB 2
Received : 08 Apr 2022
Tested : 19 Apr 2022
Diagnosed : 19 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.