



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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000283	OF0000281	OF0000279
Sample Date		Client Info		30 Aug 2021	07 Jun 2021	12 Apr 2021
Machine Age	hrs	Client Info		829	567	376
Oil Age	hrs	Client Info		651	389	198
Filter Age	hrs	Client Info		262	191	198
Oil Changed		Client Info		Not Changed	Not Changed	Not 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	65	49	39
Chromium	ppm	ASTM D5185(m)	>20	2	2	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	9	7	5
Lead	ppm	ASTM D5185(m)	>40	8	13	1
Copper	ppm	ASTM D5185(m)	>330	226	460	27
Tin	ppm	ASTM D5185(m)	>15	2	1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

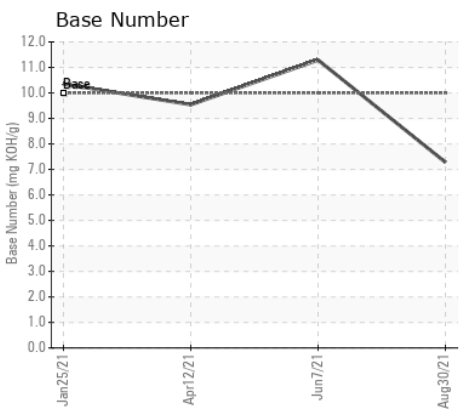
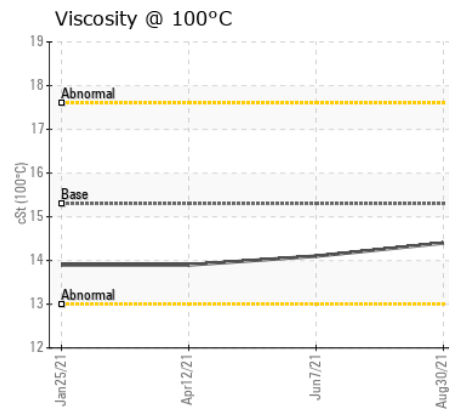
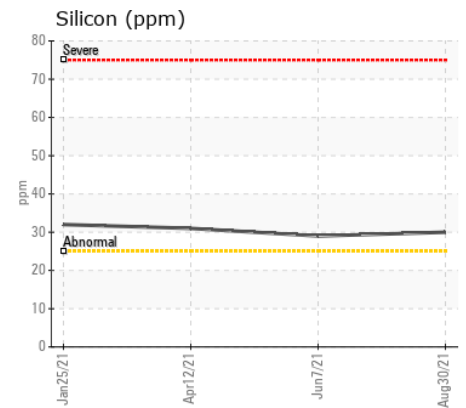
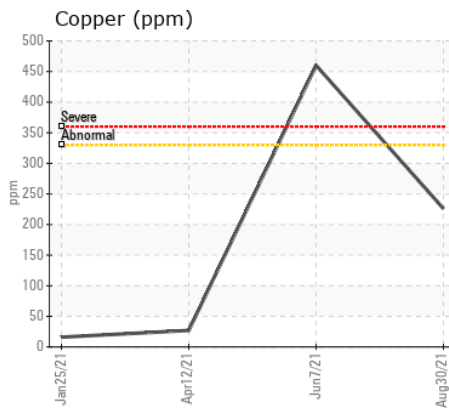
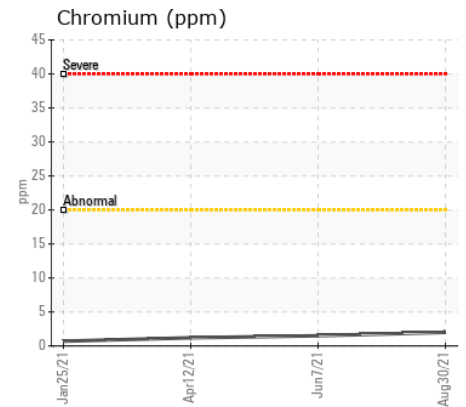
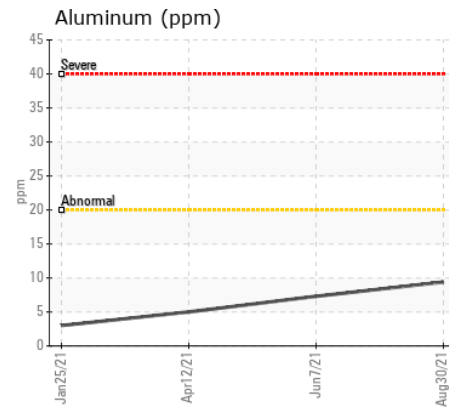
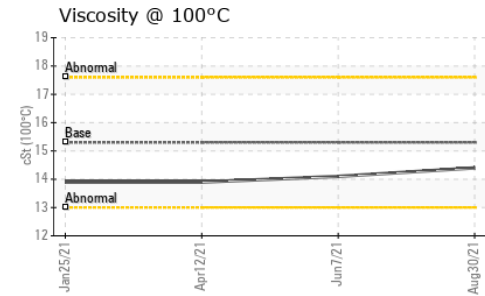
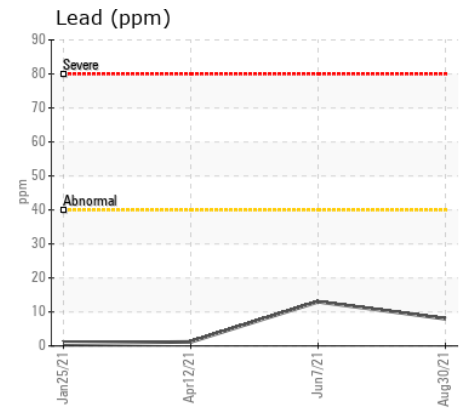
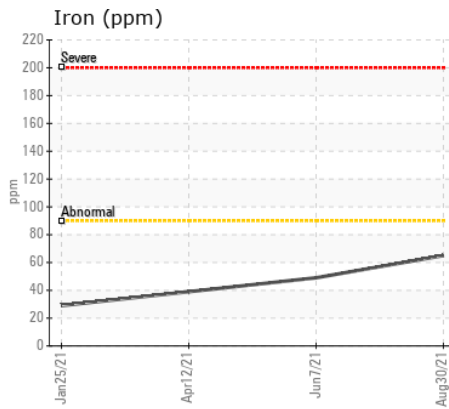
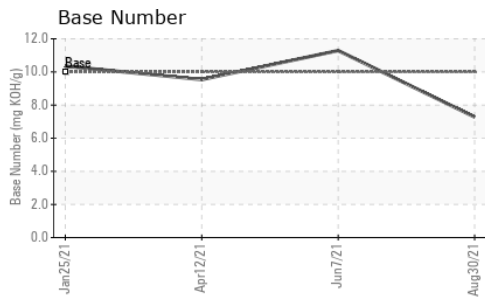
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	30	29	31
Potassium	ppm	ASTM D5185(m)	>20	2	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	0.8	0.4	0.2
Nitration	Abs/cm	ASTM D7624*	>20	11.0	10.3	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.1	22.7	21.6
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)		6	5	5
Boron	ppm	ASTM D5185(m)		17	25	36
Barium	ppm	ASTM D5185(m)		7	7	8
Molybdenum	ppm	ASTM D5185(m)		42	43	47
Manganese	ppm	ASTM D5185(m)		5	5	5
Magnesium	ppm	ASTM D5185(m)		554	578	638
Calcium	ppm	ASTM D5185(m)		1698	1549	1496
Phosphorus	ppm	ASTM D5185(m)		1058	1032	1049
Zinc	ppm	ASTM D5185(m)		1235	1191	1194
Sulfur	ppm	ASTM D5185(m)		2342	2500	2654
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.0	17.5	17.1
Base Number (BN)	mg KOH/g	ASTM D2896*	10	7.28	11.29	9.54
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	14.4	14.1	13.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000283
Lab Number : **02475701**
Unique Number : 5360624
Test Package : MOB 2
Received : 07 Mar 2022
Tested : 07 Mar 2022
Diagnosed : 07 Mar 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.