



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
PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000459	OF0000285	OF0000283
Sample Date		Client Info		23 Jan 2023	13 Sep 2021	30 Aug 2021
Machine Age	hrs	Client Info		2351	866	829
Oil Age	hrs	Client Info		1485	688	651
Filter Age	hrs	Client Info		981	37	262
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	81	64	65
Chromium	ppm	ASTM D5185(m)	>20	3	2	2
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	10	9	9
Lead	ppm	ASTM D5185(m)	>40	3	8	8
Copper	ppm	ASTM D5185(m)	>330	79	207	226
Tin	ppm	ASTM D5185(m)	>15	1	2	2
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

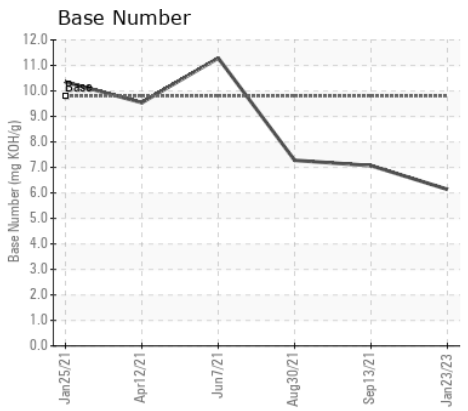
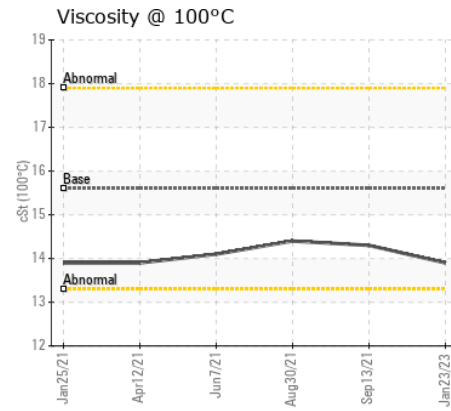
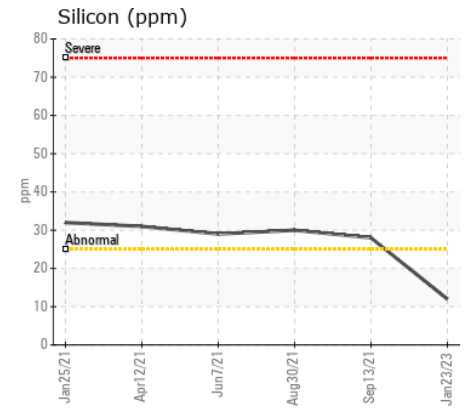
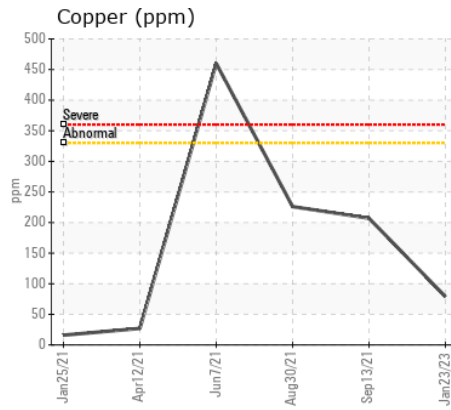
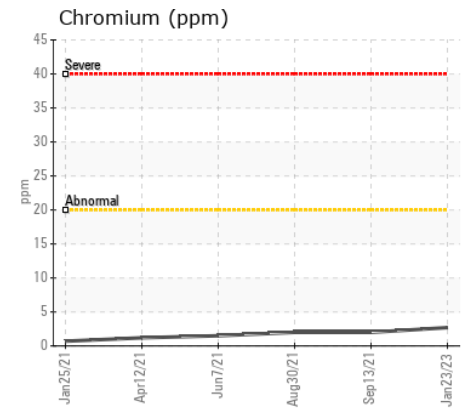
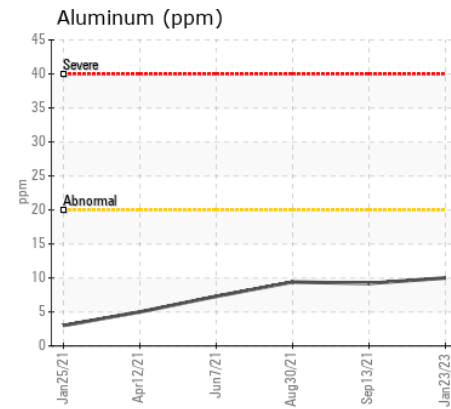
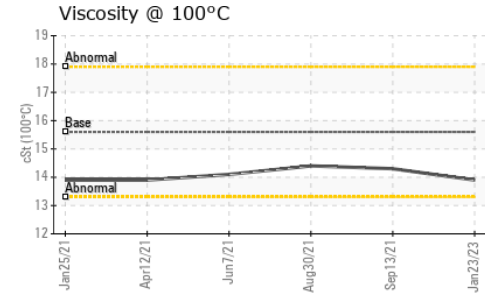
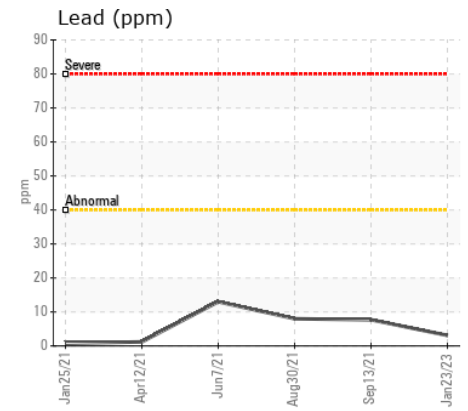
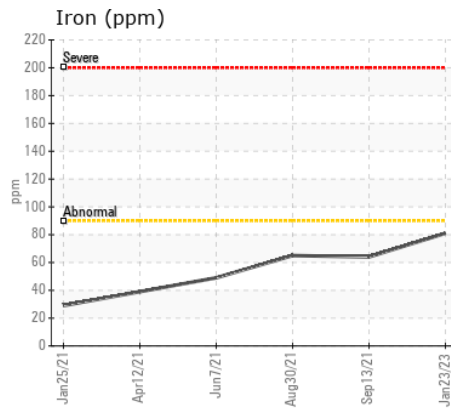
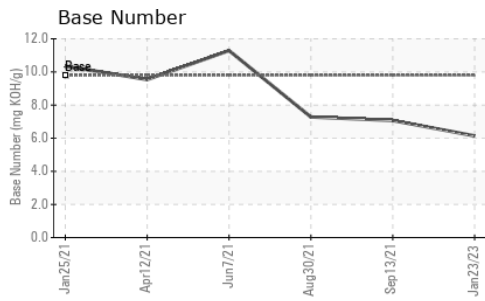
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	12	28	30
Potassium	ppm	ASTM D5185(m)	>20	0	2	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	1.5	0.9	0.8
Nitration	Abs/cm	ASTM D7624*	>20	12.6	10.8	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.5	23.8	24.1
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)		6	7	6
Boron	ppm	ASTM D5185(m)	0	2	14	17
Barium	ppm	ASTM D5185(m)	0	1	7	7
Molybdenum	ppm	ASTM D5185(m)	60	59	42	42
Manganese	ppm	ASTM D5185(m)	0	2	5	5
Magnesium	ppm	ASTM D5185(m)	1010	883	550	554
Calcium	ppm	ASTM D5185(m)	1070	1242	1580	1698
Phosphorus	ppm	ASTM D5185(m)	1150	939	1013	1058
Zinc	ppm	ASTM D5185(m)	1270	1237	1179	1235
Sulfur	ppm	ASTM D5185(m)	2060	1994	2259	2342
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.5	18.6	19.0
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	6.14	7.07	7.28
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.9	14.3	14.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000459
Lab Number : 02587428
Unique Number : 5656494
Test Package : MOB 2
Received : 06 Oct 2023
Tested : 13 Oct 2023
Diagnosed : 13 Oct 2023 - 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.