



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(GMN 477) City Of Mount Pearl
Machine Id
INTERNATIONAL Dual Arm Garbage Truck, 20-14G
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		OF0000461	OF0000335	OF0000334
Sample Date		Client Info		23 Jan 2023	18 Oct 2021	29 Jun 2021
Machine Age	hrs	Client Info		2440	1027	690
Oil Age	hrs	Client Info		1364	740	403
Filter Age	hrs	Client Info		734	337	236
Oil Changed		Client Info		Changed	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	18	54	33
Chromium	ppm	ASTM D5185(m)	>20	<1	2	1
Nickel	ppm	ASTM D5185(m)	>2	0	<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	9	7
Lead	ppm	ASTM D5185(m)	>40	<1	3	1
Copper	ppm	ASTM D5185(m)	>330	9	96	33
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

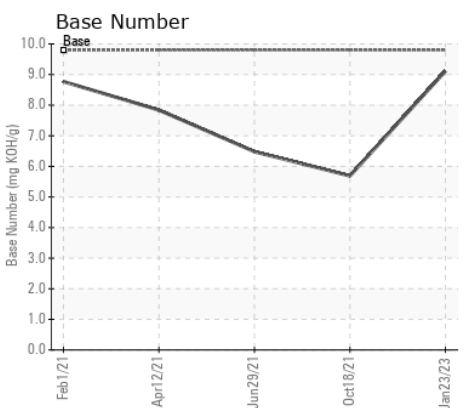
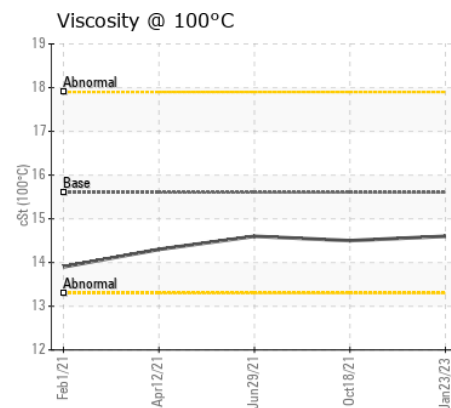
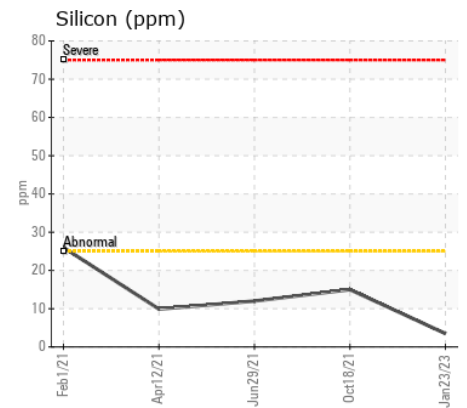
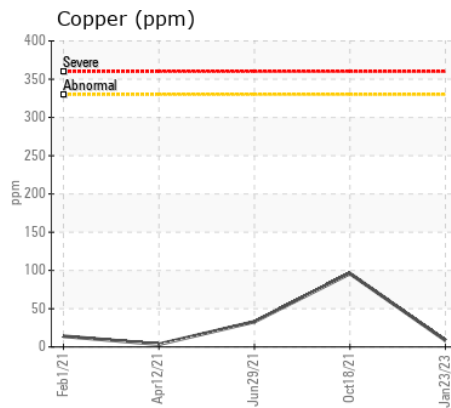
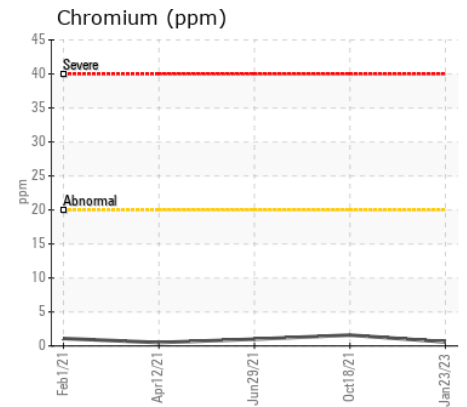
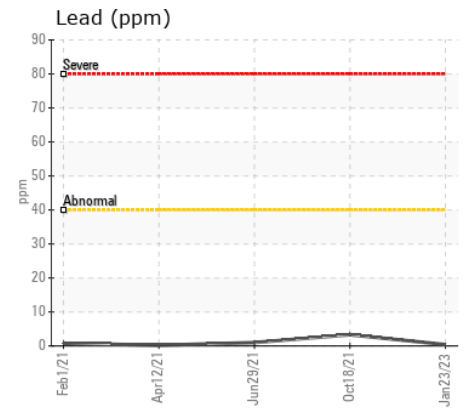
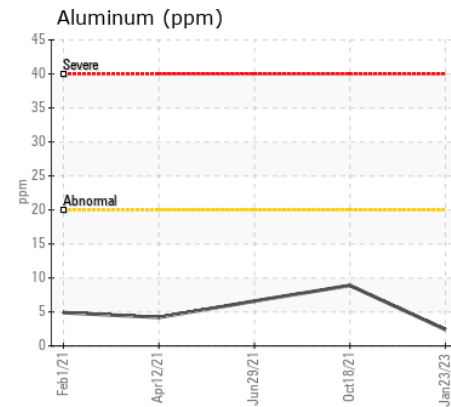
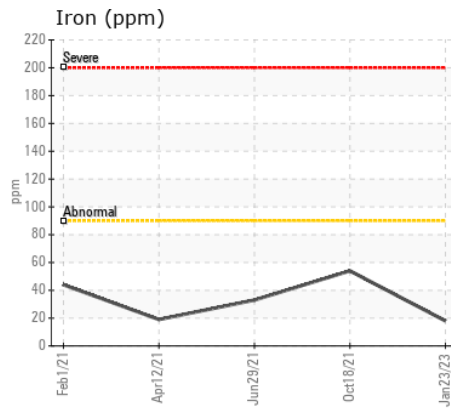
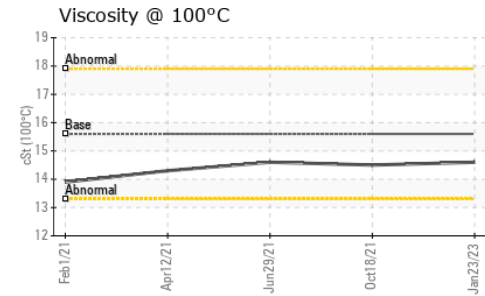
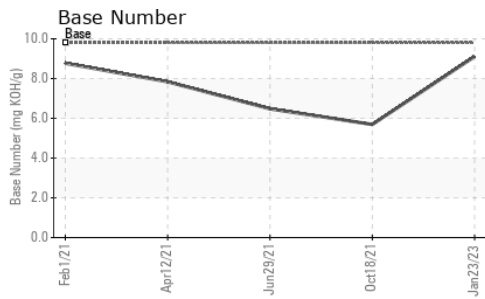
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	15	12
Potassium	ppm	ASTM D5185(m)	>20	0	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	0.4	1.1	0.5
Nitration	Abs/cm	ASTM D7624*	>20	6.6	10.9	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	24.1	21.1
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)		5	7	4
Boron	ppm	ASTM D5185(m)	0	<1	15	31
Barium	ppm	ASTM D5185(m)	0	<1	1	1
Molybdenum	ppm	ASTM D5185(m)	60	60	13	13
Manganese	ppm	ASTM D5185(m)	0	0	2	1
Magnesium	ppm	ASTM D5185(m)	1010	974	136	136
Calcium	ppm	ASTM D5185(m)	1070	1079	2082	2037
Phosphorus	ppm	ASTM D5185(m)	1150	1015	1013	1041
Zinc	ppm	ASTM D5185(m)	1270	1200	1199	1191
Sulfur	ppm	ASTM D5185(m)	2060	2516	2763	3199
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.4	16.4	14.5
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	9.11	5.69	6.48
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.6	14.5	14.6



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : OF0000461

Lab Number : 02587432

Unique Number : 5656498

Test Package : MOB 2

Received : 06 Oct 2023

Tested : 13 Oct 2023

Diagnosed : 13 Oct 2023 - Wes Davis

Oil Filtration Solutions Ltd.

PO BOX 16125

CONCEPTION BAY SOUTH, NL

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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.