



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(GMN 124) City Of Mount Pearl
Machine Id
INTERNATIONAL Rear Loader Garbage Truck, 20-04G
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		OF0000457	OF0000248	OF0000315
Sample Date		Client Info		23 Jan 2023	30 May 2022	28 Feb 2022
Machine Age	hrs	Client Info		1619	1239	1071
Oil Age	hrs	Client Info		1191	168	643
Filter Age	hrs	Client Info		548	168	245
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	8	15	65
Chromium	ppm	ASTM D5185(m)	>20	0	<1	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	2	7
Lead	ppm	ASTM D5185(m)	>40	0	<1	2
Copper	ppm	ASTM D5185(m)	>330	2	10	33
Tin	ppm	ASTM D5185(m)	>15	0	<1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

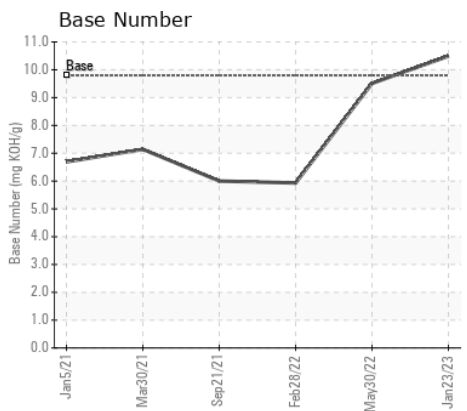
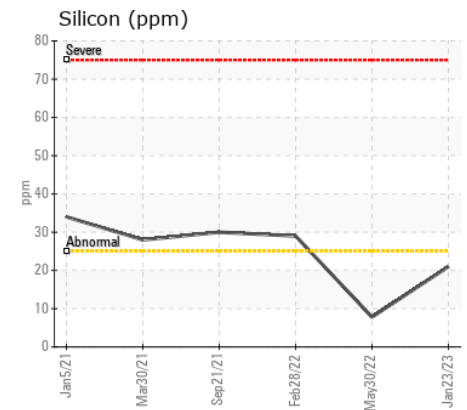
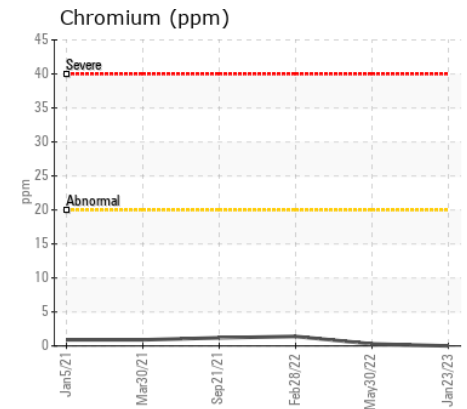
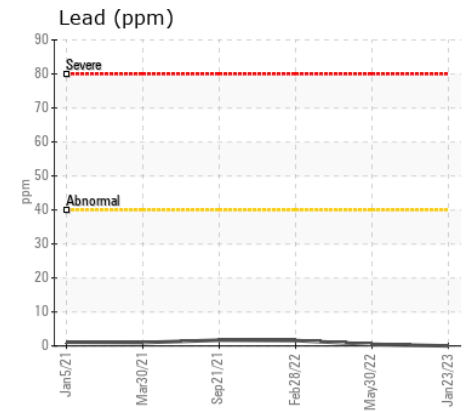
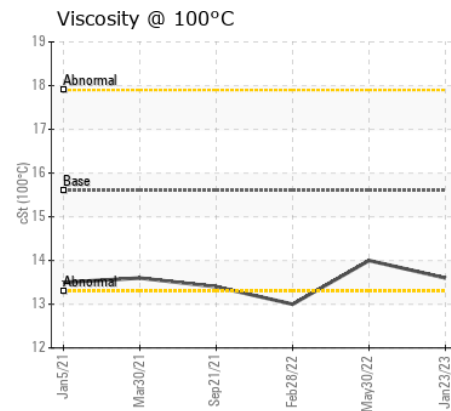
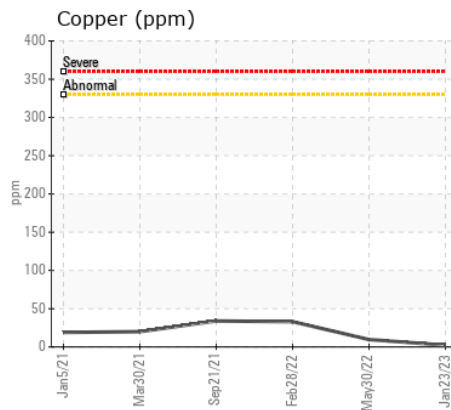
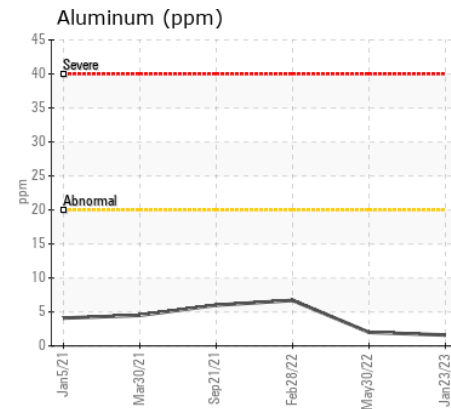
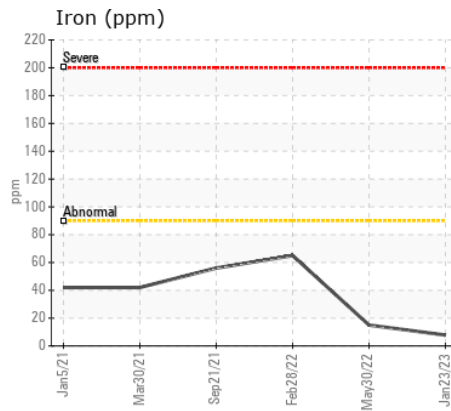
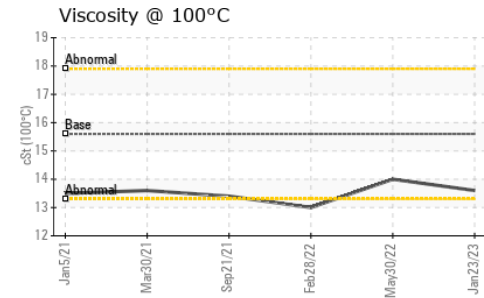
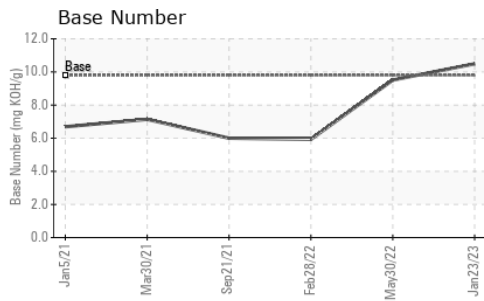
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	21	8	29
Potassium	ppm	ASTM D5185(m)	>20	0	<1	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	0	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	6.6	6.7	7.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.7	20.7	17.8
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	5
Boron	ppm	ASTM D5185(m)	0	2	3	14
Barium	ppm	ASTM D5185(m)	0	<1	<1	5
Molybdenum	ppm	ASTM D5185(m)	60	57	56	47
Manganese	ppm	ASTM D5185(m)	0	0	<1	5
Magnesium	ppm	ASTM D5185(m)	1010	925	934	474
Calcium	ppm	ASTM D5185(m)	1070	1031	1097	1588
Phosphorus	ppm	ASTM D5185(m)	1150	977	1057	878
Zinc	ppm	ASTM D5185(m)	1270	1159	1195	1144
Sulfur	ppm	ASTM D5185(m)	2060	2496	2657	2619
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6	14.5	11.7
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	10.49	9.51	5.93
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.6	14.0	13.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000457
Lab Number : 02587430
Unique Number : 5656496
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.