



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(GMN) City Of Mount Pearl
Machine Id
INTERNATIONAL Dual Arm Garbage Truck, 20-15G
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		OF0000458	OF0000247	OF0000246
Sample Date		Client Info		23 Jan 2023	28 Feb 2022	18 Oct 2021
Machine Age	hrs	Client Info		2411	1399	987
Oil Age	hrs	Client Info		2201	1189	777
Filter Age	hrs	Client Info		964	412	149
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	8	28	58
Chromium	ppm	ASTM D5185(m)	>20	<1	1	2
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	5	9
Lead	ppm	ASTM D5185(m)	>40	<1	<1	2
Copper	ppm	ASTM D5185(m)	>330	1	14	53
Tin	ppm	ASTM D5185(m)	>15	0	<1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

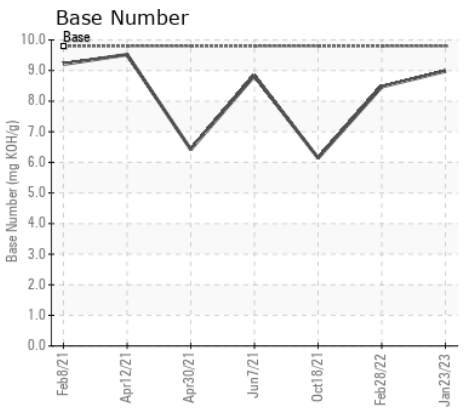
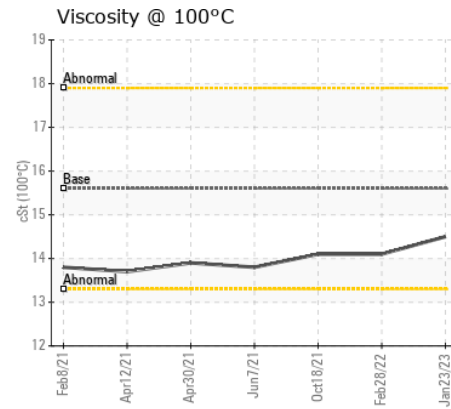
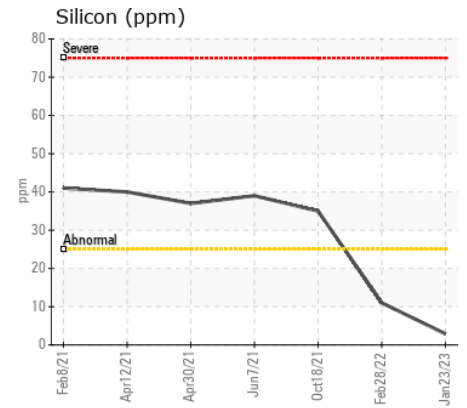
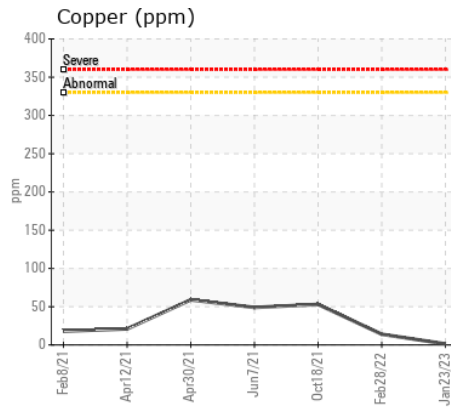
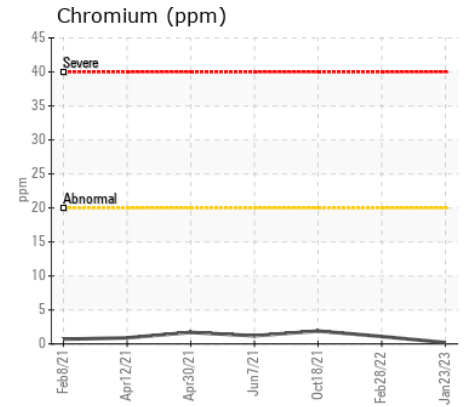
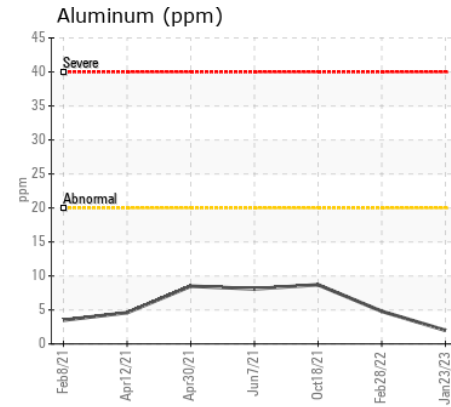
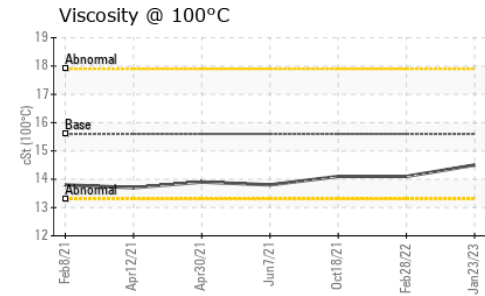
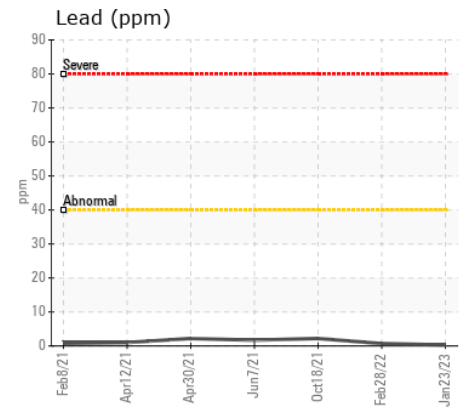
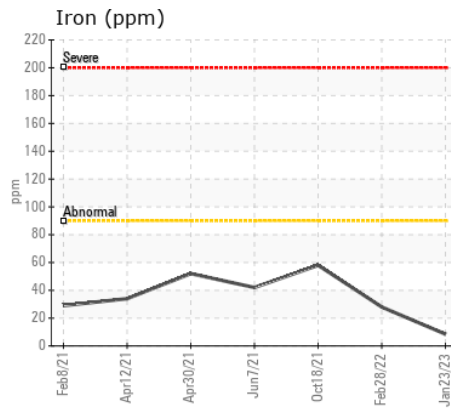
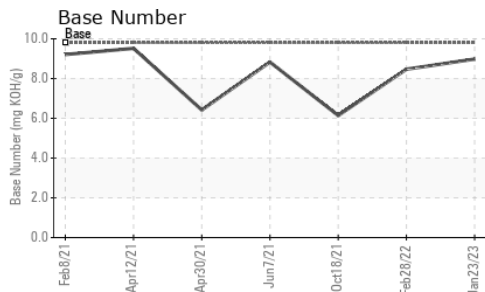
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	11	35
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	0.1	0.4	0.7
Nitration	Abs/cm	ASTM D7624*	>20	5.9	8.4	11.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	21.6	25.1
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)		2	3	7
Boron	ppm	ASTM D5185(m)	0	1	3	13
Barium	ppm	ASTM D5185(m)	0	<1	1	6
Molybdenum	ppm	ASTM D5185(m)	60	60	55	36
Manganese	ppm	ASTM D5185(m)	0	0	2	6
Magnesium	ppm	ASTM D5185(m)	1010	984	910	426
Calcium	ppm	ASTM D5185(m)	1070	1038	1171	1707
Phosphorus	ppm	ASTM D5185(m)	1150	1020	1061	939
Zinc	ppm	ASTM D5185(m)	1270	1181	1251	1165
Sulfur	ppm	ASTM D5185(m)	2060	2557	2587	2388
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.3	15.7	19.7
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	8.98	8.47	6.14
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.5	14.1	14.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000458
Lab Number : **02587427**
Unique Number : 5656493
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.