



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
(GMN476) City Of Mount Pearl
Machine Id
INTERNATIONAL Dual Arm Garbage Truck, 20-13G
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (239 LTR)

RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. (Customer Sample Comment: G2F 1-micron installed)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000278	---	---
Sample Date		Client Info		25 Jan 2021	---	---
Machine Age	hrs	Client Info		178	---	---
Oil Age	hrs	Client Info		178	---	---
Filter Age	hrs	Client Info		178	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	1	---	---
Chromium	ppm	ASTM D5185(m)	>10	<1	---	---
Nickel	ppm	ASTM D5185(m)		<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>10	0	---	---
Lead	ppm	ASTM D5185(m)	>10	0	---	---
Copper	ppm	ASTM D5185(m)	>75	<1	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

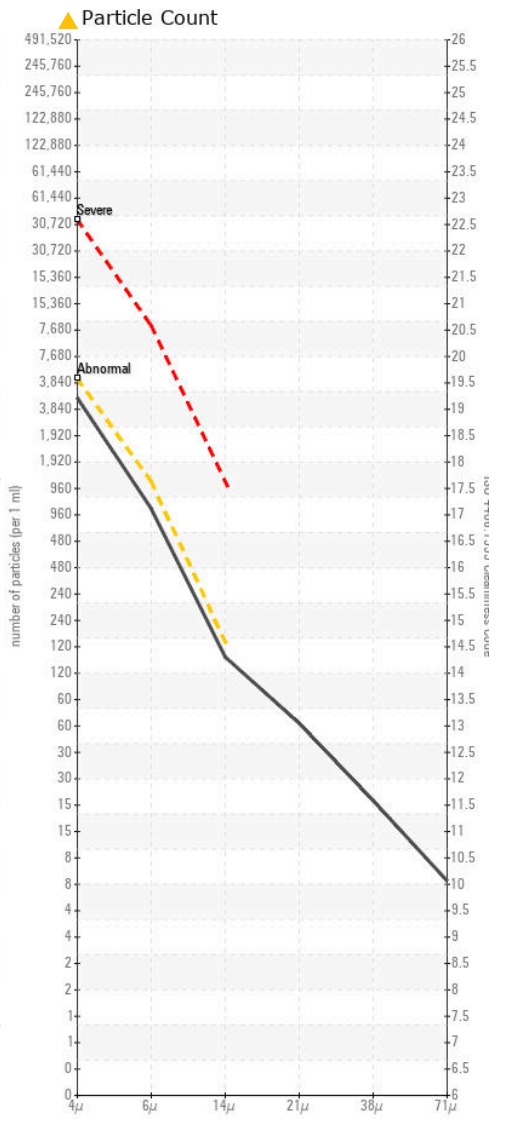
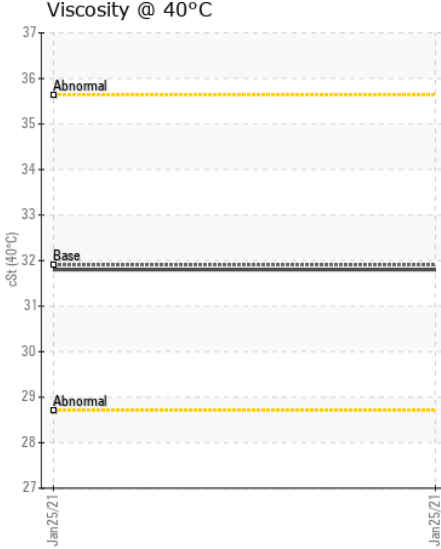
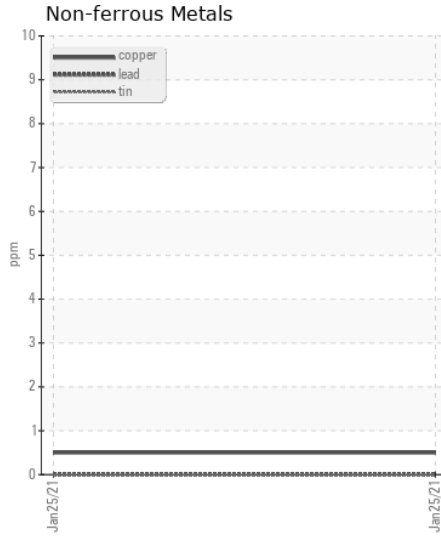
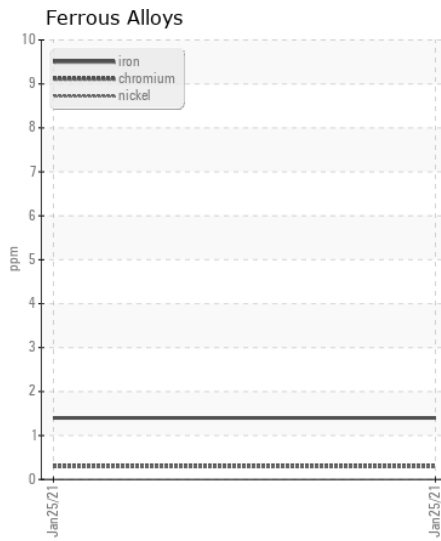
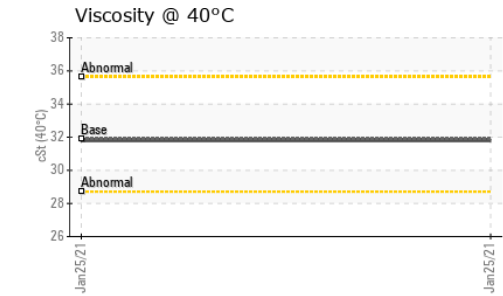
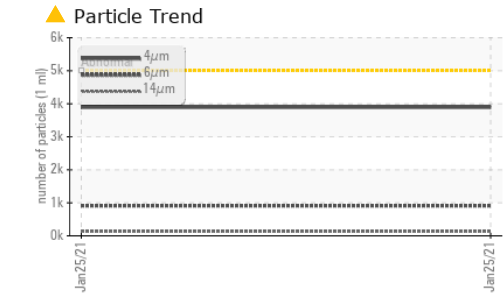
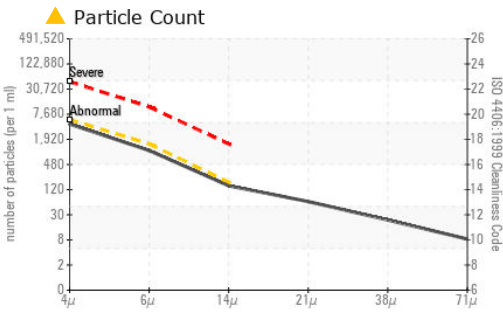
Particles >71µm are abnormally high. Particles >38µm are notably high.

Silicon	ppm	ASTM D5185(m)	>20	6	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	3894	---	---
Particles >6µm		ASTM D7647	>1300	911	---	---
Particles >14µm		ASTM D7647	>160	131	---	---
Particles >21µm		ASTM D7647	>40	55	---	---
Particles >38µm		ASTM D7647	>10	20	---	---
Particles >71µm		ASTM D7647	>3	7	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/14	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		<1	---	---
Boron	ppm	ASTM D5185(m)	0	<1	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---	---
Manganese	ppm	ASTM D5185(m)	1	0	---	---
Magnesium	ppm	ASTM D5185(m)	0	<1	---	---
Calcium	ppm	ASTM D5185(m)	50	46	---	---
Phosphorus	ppm	ASTM D5185(m)	330	322	---	---
Zinc	ppm	ASTM D5185(m)	430	380	---	---
Sulfur	ppm	ASTM D5185(m)	760	725	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	31.8	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000278 **Received** : 09 Mar 2022
Lab Number : **02476321** **Tested** : 11 Mar 2022
Unique Number : 5369249 **Diagnosed** : 11 Mar 2022 - Kevin Marson
Test Package : MOB 2

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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.