



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
(GMN 477) City Of Mount Pearl
Machine Id
INTERNATIONAL Dual Arm Garbage Truck, 20-14G

Component
Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (239 LTR)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000840	OF0000322	OF0000321
Sample Date		Client Info		17 Jun 2024	18 Oct 2021	29 Jun 2021
Machine Age	hrs	Client Info		4174	1027	690
Oil Age	hrs	Client Info		4174	1027	690
Filter Age	hrs	Client Info		205	337	236
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	9	2	2
Chromium	ppm	ASTM D5185(m)	>10	3	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	2	0	0
Lead	ppm	ASTM D5185(m)	>10	0	0	<1
Copper	ppm	ASTM D5185(m)	>75	1	2	2
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

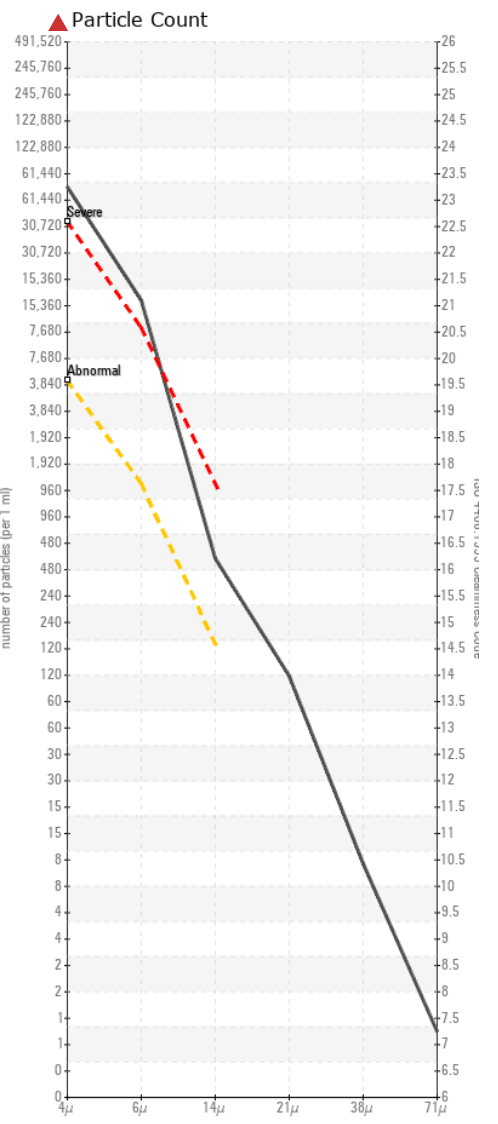
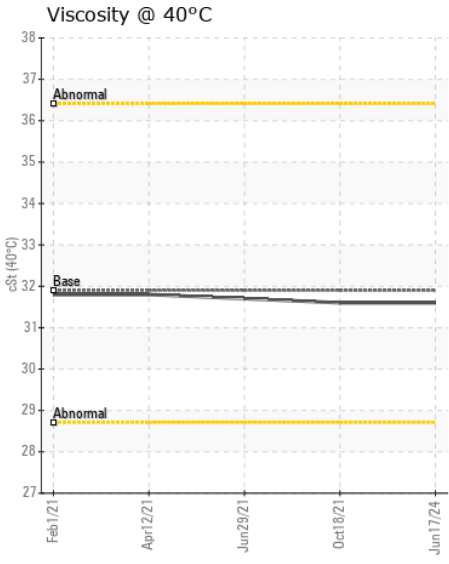
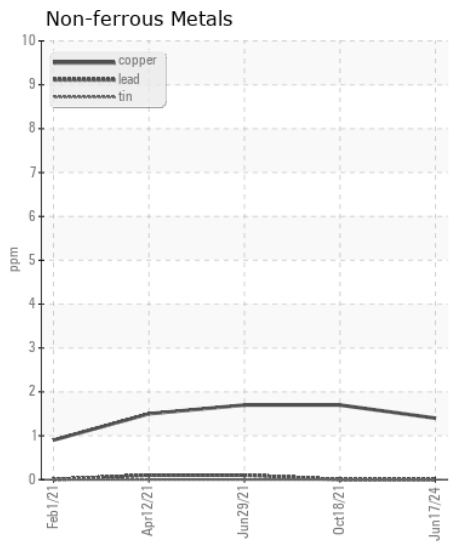
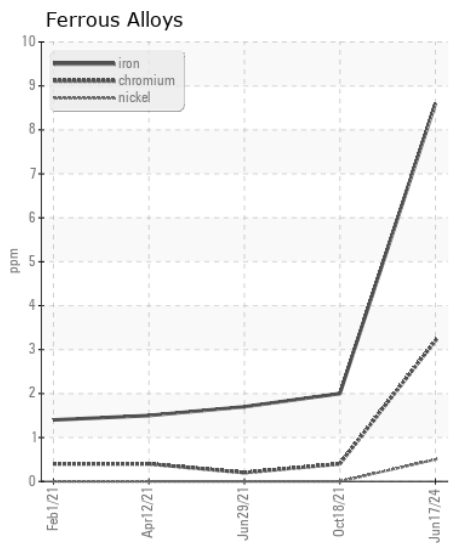
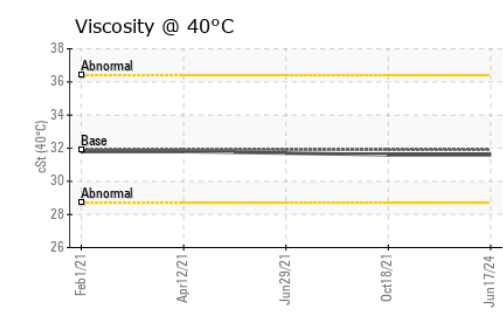
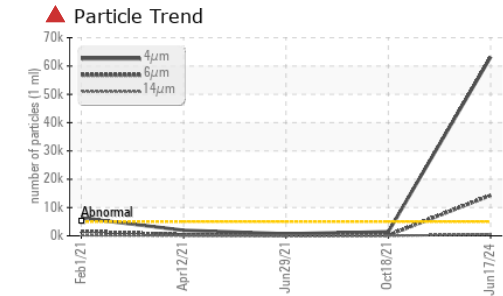
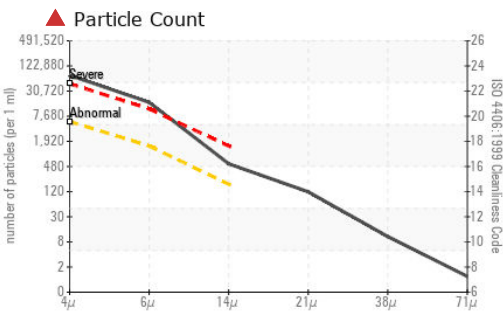
There is a high amount of particulates (2 to 100 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>20	4	1	1
Potassium	ppm	ASTM D5185(m)	>20	2	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 63177	1425	711
Particles >6µm		ASTM D7647	>1300	▲ 14327	230	163
Particles >14µm		ASTM D7647	>160	▲ 489	17	10
Particles >21µm		ASTM D7647	>40	▲ 105	5	2
Particles >38µm		ASTM D7647	>10	9	0	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/21/16	18/15/11	17/15/10
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		3	<1	<1
Boron	ppm	ASTM D5185(m)	0	4	<1	<1
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	0	1	0	0
Manganese	ppm	ASTM D5185(m)	1	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	52	<1	<1
Calcium	ppm	ASTM D5185(m)	50	124	44	45
Phosphorus	ppm	ASTM D5185(m)	330	332	318	322
Zinc	ppm	ASTM D5185(m)	430	403	389	390
Sulfur	ppm	ASTM D5185(m)	760	1299	727	727
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	31.6	31.6	31.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000840
Lab Number : 02644171
Unique Number : 5801710
Test Package : MOB 2
Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Kevin Marson

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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.