



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**(GMN 523) City Of Mount Pearl**  
Machine Id  
**INTERNATIONAL Side Loader Garbage Truck, 733**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX AW 32 (239 LTR)**

**RECOMMENDATION**

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>OF0000239</b>	OF0000242	OF0000276
Sample Date		Client Info		<b>28 Feb 2022</b>	13 Sep 2021	30 Mar 2021
Machine Age	hrs	Client Info		<b>3710</b>	3501	3415
Oil Age	hrs	Client Info		<b>3710</b>	3501	3415
Filter Age	hrs	Client Info		<b>209</b>	86	126
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<b>5</b>	4	7
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>75	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

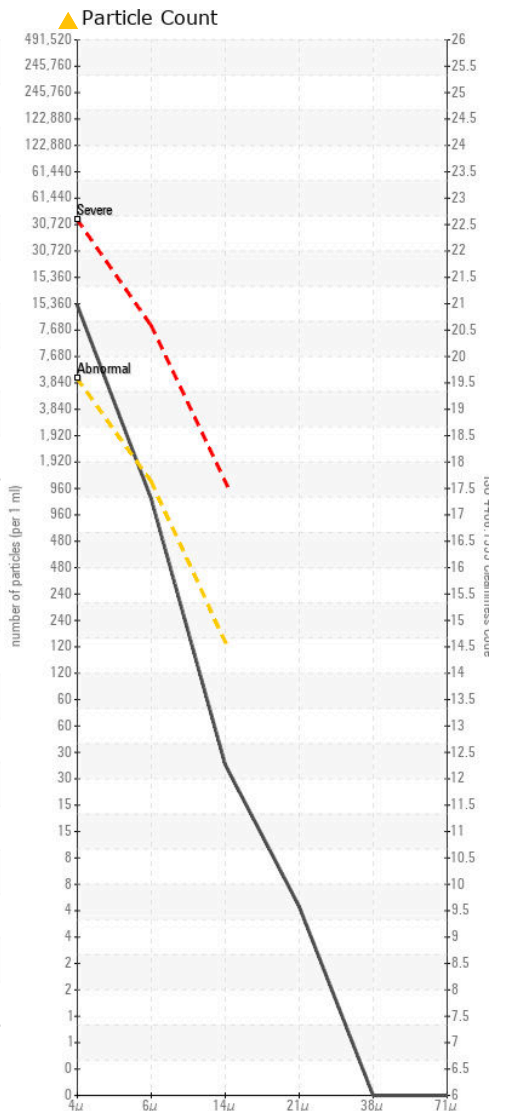
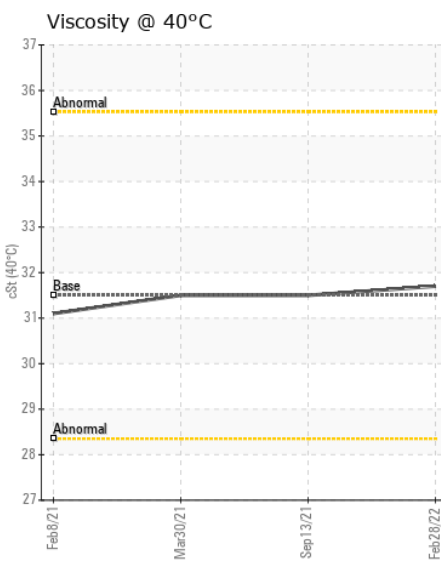
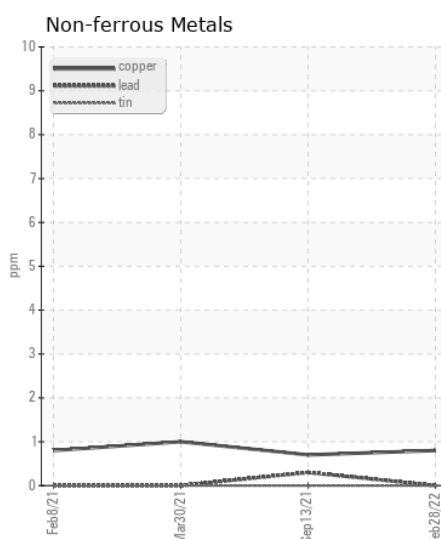
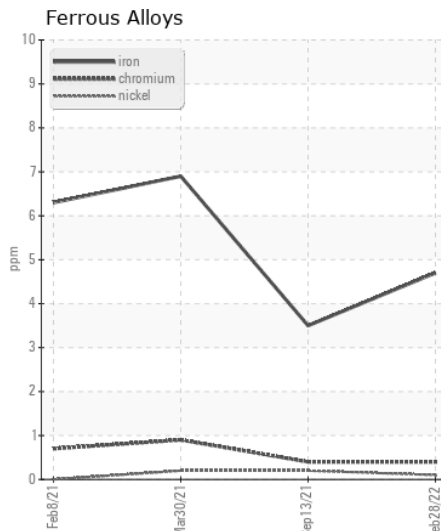
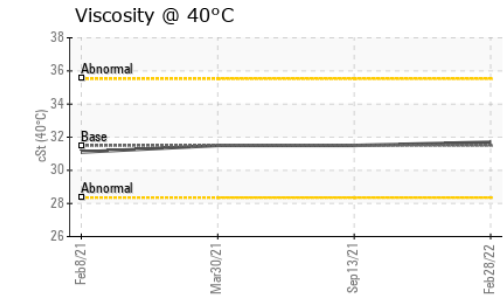
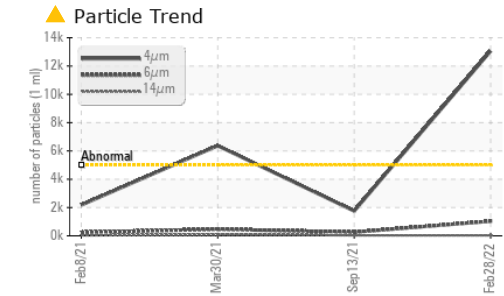
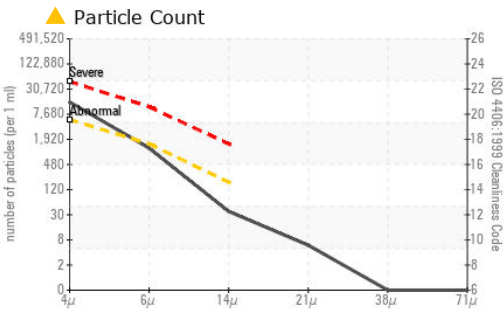
Particles >4µm are abnormally high.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	3	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 13056</b>	1752	● 6368
Particles >6µm		ASTM D7647	>1300	<b>1036</b>	260	468
Particles >14µm		ASTM D7647	>160	<b>32</b>	32	77
Particles >21µm		ASTM D7647	>40	<b>5</b>	9	28
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	2
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 21/17/12</b>	18/15/12	● 20/16/13
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	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)		<b>2</b>	2	4
Boron	ppm	ASTM D5185(m)	0	<b>6</b>	6	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>2</b>	2	2
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>68</b>	69	19
Calcium	ppm	ASTM D5185(m)	50	<b>160</b>	161	115
Phosphorus	ppm	ASTM D5185(m)	330	<b>347</b>	350	367
Zinc	ppm	ASTM D5185(m)	430	<b>400</b>	393	431
Sulfur	ppm	ASTM D5185(m)	760	<b>1138</b>	1127	1050
Visc @ 40°C	cSt	ASTM D7279(m)	31.5	<b>31.7</b>	31.5	31.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : OF0000239  
**Lab Number** : **02482421**  
**Unique Number** : 5383358  
**Test Package** : MOB 2  
**Received** : 08 Apr 2022  
**Tested** : 11 Apr 2022  
**Diagnosed** : 11 Apr 2022 - Wes Davis

**Oil Filtration Solutions Ltd.**  
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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.