



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**(GMK 163) City Of Mount Pearl**  
Machine Id  
**INTERNATIONAL Vacuum Truck, 1532**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX MV 32 (228 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>OF0000320</b>	OF0000327	OF0000326
Sample Date		Client Info		<b>28 Feb 2022</b>	30 Aug 2021	30 Mar 2021
Machine Age	hrs	Client Info		<b>5180</b>	4817	4508
Oil Age	hrs	Client Info		<b>1831</b>	1468	1159
Filter Age	hrs	Client Info		<b>363</b>	309	43
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<b>3</b>	3	3
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)		<b>0</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	<1
Copper	ppm	ASTM D5185(m)	>75	<b>1</b>	1	2
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**

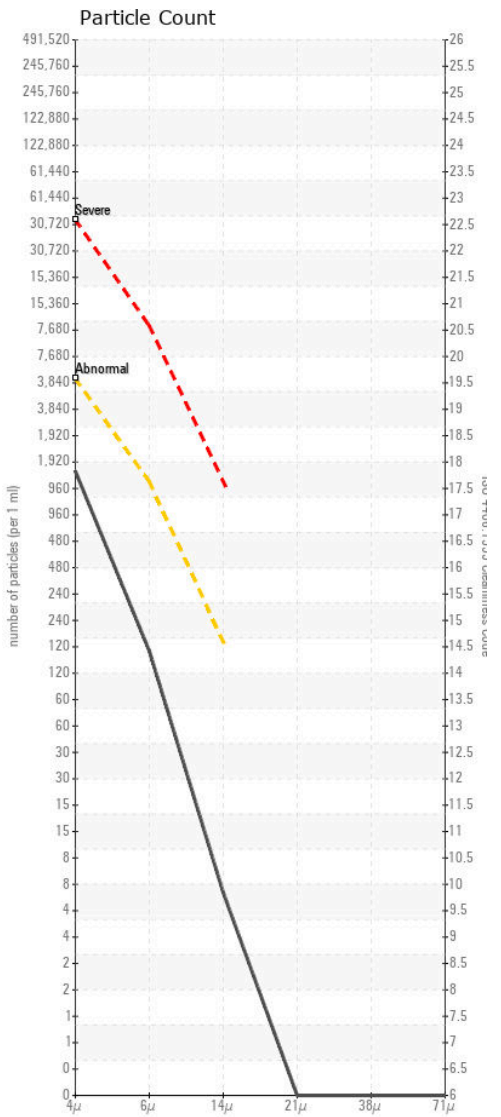
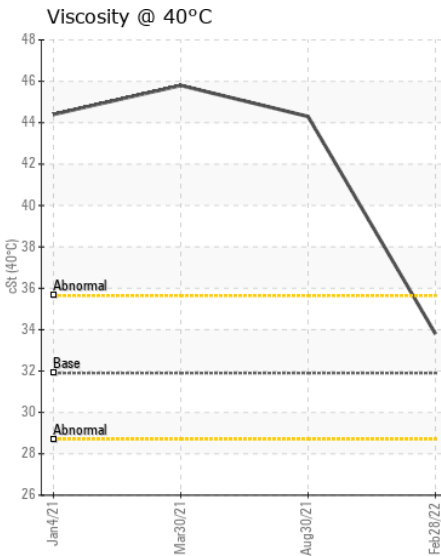
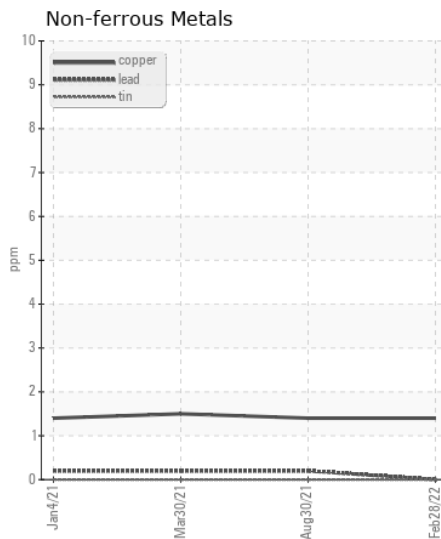
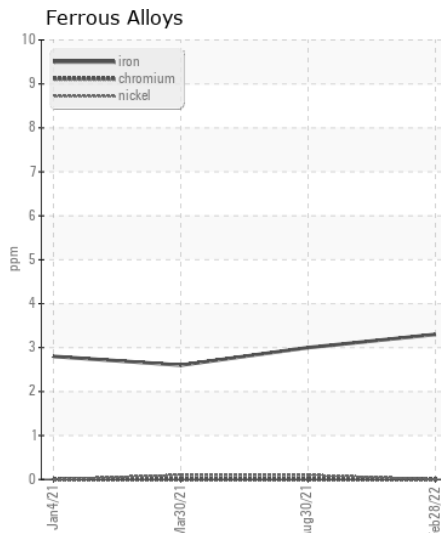
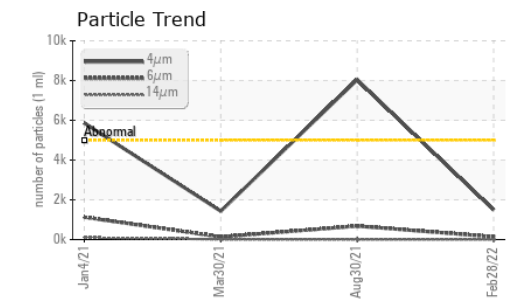
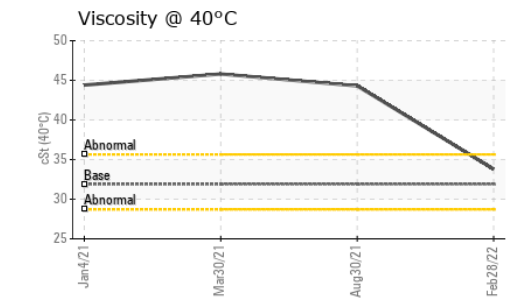
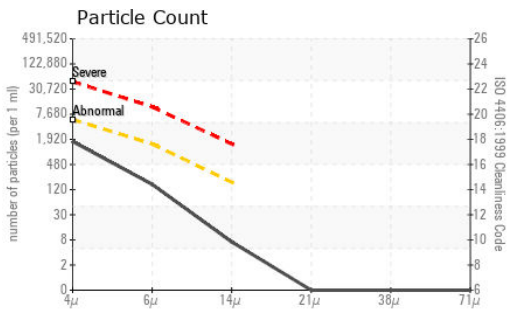
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>1493</b>	8041	1428
Particles >6µm		ASTM D7647	>1300	<b>142</b>	681	135
Particles >14µm		ASTM D7647	>160	<b>6</b>	6	9
Particles >21µm		ASTM D7647	>40	<b>0</b>	2	3
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>18/14/10</b>	20/17/10	18/14/10
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	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.

Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	2	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>19</b>	20	9
Calcium	ppm	ASTM D5185(m)	50	<b>64</b>	65	37
Phosphorus	ppm	ASTM D5185(m)	330	<b>276</b>	276	262
Zinc	ppm	ASTM D5185(m)	430	<b>304</b>	283	281
Sulfur	ppm	ASTM D5185(m)	760	<b>3466</b>	3452	3565
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	<b>33.8</b>	44.3	45.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : OF0000320 **Received** : 08 Apr 2022  
**Lab Number** : 02482422 **Tested** : 11 Apr 2022  
**Unique Number** : 5383359 **Diagnosed** : 11 Apr 2022 - Wes Davis  
**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.